

## SAFETY DATA SHEET

### PROTECTO-FLEX 310 TC COMPONENT B

#### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** PROTECTO-FLEX 310 TC COMPONENT B

**PRODUCT CODE:** #PFLX310TCB

**PRODUCT USE:** Hardener for 2 component epoxy coatings

**MANUFACTURER**

DUDICK, INC.

1818 MILLER PARKWAY

STREETSBORO, OH, 44241

330-562-1970

**24 HR. EMERGENCY TELEPHONE NUMBER**

**CHEM-TEL (US Transportation):** (800)255-3924

**CHEM-TEL (International Transportation):** +01(813)248-0585

#### 2. HAZARDS IDENTIFICATION

**CLASSIFICATION:**

Skin Corrosive - Category 1

Skin Sensitizer - Category 1

Specific target organ toxicity - single exposure - Category 3

Serious Eye Damage/Eye Irritation - Category 1

**GHS LABEL ELEMENTS:**



**SIGNAL WORD:** Danger

**HAZARD STATEMENTS:**

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

**PRECAUTIONARY STATEMENTS :**

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P405 Store locked up.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P337+P313 If eye irritation persists: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P501 Dispose of contents/container in accordance with local, regional, and federal regulations.

<b>DATE PRINTED</b>	5/19/2015
<b>SDS REF. No :</b>	#PFLX310TCB

P261 Avoid breathing vapors/spray.  
P264 Wash all contacted body parts thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

### 3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Chemical Name	Weight %	CAS Number
Benzyl alcohol	25% to 40%	100-51-6
Cycloaliphatic amine	15% to 25%	PROPRIETARY
Polyoxypropylene-2, 10-diamine	15% to 25%	9046-10-0
Isophoronediamine	10% to 15%	2855-13-2
Bisphenol A-epichlorohydrin-diethylenetriamine copolymer	5% to 10%	31326-29-1
Diethylenetriamine	0% to 5%	111-40-0
Methyl Ethyl Ketone	0% to 5%	78-93-3

No further information available for this product.

### 4. FIRST AID MEASURES

**EYES:** Hold eyelids apart, initiate and maintain gentle and continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour.  
**SKIN:** Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay. Initiate and maintain continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour.  
**INGESTION:** Prevent aspiration of vomit. Turn victim's head to side. Do not induce vomiting. Rinse mouth out and give plenty of water. Never give anything by mouth to an unconscious person. Consult physician.  
**INHALATION:** If not breathing, give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask etc.). If breathing is difficult, oxygen should be administered by qualified personnel. Consult a physician after significant exposure. Move person to fresh air. If unconscious place in recovery position and seek medical advice.  
**NOTES TO PHYSICIAN:** NOTE TO PHYSICIANS: Application of corticosteroid cream has been effective in treating skin irritation.

<b>DATE PRINTED</b>	5/19/2015
<b>SDS REF. No :</b>	#PFLX310TCB

## 5. FIRE FIGHTING MEASURES

**SUITABLE EXTINGUISHING MEDIA:** Alcohol resistant foam; Carbon Dioxide (CO<sub>2</sub>); dry chemical; dry sand; limestone powder; use water to keep containers cool.

**UNSUITABLE EXTINGUISHING MEDIA:** Do not use high pressure water jet as this may spread the area of the fire.

**SPECIFIC HAZARDS IN CASE OF FIRE:** Closed containers may rupture (due to build up in pressure) when exposed to extreme heat.

Burning may produce noxious and toxic fumes. Incomplete combustion may form carbon monoxide. May generate ammonia gas. May generate toxic nitrogen oxide gasses. Downwind personnel should be evacuated.

**SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTION FOR FIRE FIGHTERS:** Wear self-contained breathing apparatus (SCBA) in positive pressure mode and full protective clothing.

## 6. ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Isolate area; ensure adequate ventilation; remove all sources of ignition; 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.

**ENVIRONMENTAL PRECAUTIONS:** Halt the flow of material as soon as practical using appropriate barriers; Prevent contamination of soil and water. Prevent from spreading or entering into drains, ditches, waterways by using sand, earth or appropriate barriers.

**METHOD AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Soak up with sand, earth, diatomaceous earth or other suitable inert absorbent material; collect into suitable waste disposal containers. Wash spillage site with large amounts of water. Dispose of in accordance with applicable local and federal environmental control laws and regulations.

## 7. HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** Use only in well-ventilated areas. Avoid contact with skin and eyes. Avoid breathing vapors and/or aerosols. Emergency showers and eye wash stations should be readily accessible. Use personal protective equipment. When using, do not eat, drink or smoke.

**CONDITIONS FOR SAFE STORAGE, INCLUDING INCOMPATIBILITIES:** Do not store near incompatibles (strong oxidizers, acids, alkalis). Do not store near excessive heat or near sources of ignition. Keep container tightly closed when not in use.

## 8. EXPOSURE CONTROLS\PERSONAL PROTECTION

### EXPOSURE LIMITS

Components	CAS	Limits
Benzyl alcohol	100-51-6	WEEL 10 ppm
Cycloaliphatic amine	PROPRIETARY	None established
Polyoxypropylene-2, 10-diamine	9046-10-0	None established.
Isophoronediamine	2855-13-2	None established.
Bisphenol A-epichlorohydrin-diethylenetriamine copolymer	31326-29-1	None established
Diethylenetriamine	111-40-0	ACGIH TLV; TWA 1 ppm NIOSH REL; TWA 4 mg/m <sup>3</sup> , 1 ppm

**ENGINEERING CONTROLS:** Ventilation:

<b>DATE PRINTED</b>	5/19/2015
<b>SDS REF. No :</b>	#PFLX310TCB

Use local exhaust ventilation, or other engineering controls to maintain airborne levels requirements or guidelines.

General ventilation may not be sufficient.

#### **PERSONAL PROTECTIVE EQUIPMENT**

**RESPIRATORY PROTECTION:** If ventilation is inadequate or if irritation or other symptoms are experienced, wear a NIOSH/MHSA approved respirator with organic vapor cartridge.

**EYES PROTECTION:** Full face shield with goggles underneath.

**SKIN PROTECTION:** Impervious clothing. Rubber or plastic boots.

Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task.

Hand protection: Use chemical resistant gloves. Consult glove manufacturer for recommendations.

**WORK HYGIENIC PRACTICES:** Use good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating. Wash contaminated clothing before reuse. Eye wash stations and emergency showers should be available.

**OTHER USE PRECAUTIONS:** The type and degree of personal protective equipment will depend on the specific work operation. Eye wash stations and emergency showers should be available. Inspect and replace personal protective equipment at regular intervals; use professional care in their selection, use and care.

**COMMENTS:** No data available for this product.

### **9. PHYSICAL AND CHEMICAL PROPERTIES**

**PHYSICAL STATE:** Liquid

**COLOR:** Pale amber

**FLASH POINT AND METHOD:** No data available for this product.

**AUTO-IGNITION TEMPERATURE:** Not Determined.

**BOILING POINT/RANGE:** No data available for this product.

**MELTING POINT:** Not Determined.

**VAPOUR PRESSURE:** Not determined.

**VAPOUR DENSITY:** Heavier than air.

**SOLUBILITY:** Not determined.

**ODOR/THRESHOLD:** Amine-like.

**LOWER / UPPER FLAMMABLE LIMITS:** No data available for this product.

**DENSITY:** 1.0169

**EVAPORATION RATE:** Slower than ether.

**PARTITION COEFFICIENT:** Not determined.

**pH:** Not Applicable.

**DECOMPOSITION TEMPERATURE:** Not determined.

### **10. STABILITY AND REACTIVITY**

**CHEMICAL STABILITY:** This product is stable under normal storage conditions.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Mixtures with strongly acidic materials may produce an exothermic reaction.

**CONDITIONS TO AVOID:** Avoid elevated temperatures and sources of ignition.

**MATERIALS TO AVOID:** Sodium hypochlorite. Organic acids (i.e. acetic acid, citric acid etc.). Mineral acids.

Product slowly corrodes copper, aluminum, zinc and galvanized surfaces.

Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion.

Reactive metals (e.g. sodium, calcium, zinc etc.).

Materials reactive with hydroxyl compounds.

Oxidizing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Nitric acid. Ammonia Nitrogen oxides (NOx).

<b>DATE PRINTED</b>	5/19/2015
<b>SDS REF. No :</b>	#PFLX310TCB

Nitrogen oxide can react with water vapors to form corrosive nitric acid.  
Carbon monoxide. Carbon dioxide (CO<sub>2</sub>).  
Aldehydes. Flammable hydrocarbon fragments.  
Organic acid vapors.

## 11. TOXICOLOGICAL INFORMATION

### SIGNS AND SYMPTOMS OF OVEREXPOSURE:

#### ACUTE EFFECTS:

**EYE CONTACT:** Causes eye burns. May cause blindness. Corneal edema may give rise to a perception of "blue haze" or "fog" around lights. Exposed individuals may see rings around bright lights. This effect is temporary and has no known residual effect. Product vapor can cause glaucopsia (corneal edema) when absorbed into the tissue of the eye from the atmosphere.

**SKIN CONTACT:** Causes skin burns.

**INHALATION:** Inhalation of vapors and/or aerosols in high concentration may cause irritation of respiratory system. Inhalation of aerosol may cause irritation to the upper respiratory tract. May cause nose, throat, and lung irritation. Can cause severe eye, skin and respiratory tract burns.

**INGESTION:** Harmful if swallowed. If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.

**TARGET ORGAN:** Not classified with regard to specific target organs

**CHRONIC EFFECTS:** This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1 percent or greater. May cause allergic skin reaction, eye disease, skin disorders and allergies.

**TOXICITY VALUES:** Not determined

## 12. ECOLOGICAL INFORMATION

### PERSISTENCE AND DEGRADABILITY:

Not determined.

### BIO-ACCUMULATIVE POTENTIAL:

Product not classified as Persistent, Bio-accumulative and Toxic.  
Product not classified as Very Persistent or very Bio-accumulative.

### MOBILITY IN SOIL:

Not determined.

### OTHER ADVERSE EFFECTS:

Not known.

### ECOTOXICOLOGICAL OTHER INFORMATION:

No data available for this product.

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Dispose of according to local, state, and federal regulations through a licensed disposal facility.

## 14. TRANSPORT INFORMATION

**UN NUMBER:** UN2735

**UN PROPER SHIPPING NAME:** Polyamines, liquid, corrosive, n.o.s. (Polyoxypropylenediamine)

**TRANSPORT HAZARD CLASS:**

8

**TRANSPORT HAZARD SUBCLASS:**

Not applicable.

**PACKING GROUP:** III

**MARINE POLLUTANT Y/N:**

<b>DATE PRINTED</b>	5/19/2015
<b>SDS REF. No :</b>	#PFLX310TCB

No  
**SPECIAL PRE-CAUTIONS:** None

**15. REGULATORY INFORMATION**

**U.S. REGULATIONS:**

All components of this product are listed on or exempt from the TSCA Inventory.

**U.S. SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

**311/312 HAZARD CATEGORIES:**

- FIRE:** No
- PRESSURE GENERATING:** No
- REACTIVITY:** No
- ACUTE:** Yes
- CHRONIC:** Yes

**313 REPORTABLE INGREDIENTS:**

**313 REPORTABLE INGREDIENTS**

Chemical Name	Weight %	CAS
Methyl Ethyl Ketone	0% to 5%	78-93-3

**302/304 EMERGENCY PLANNING**

**EMERGENCY PLAN:** No reportable components

**STATE REGULATIONS:**

No components are on the California Proposition 65 list.

**Massachusetts Right To Know Components**

Chemical Name	CAS
Diethylenetriamine	111-40-0

**Pennsylvania Right To Know Components**

Chemical Name	CAS
Isophoronediamine	2855-13-2
Diethylenetriamine	111-40-0

**New Jersey Right To Know Components**

Chemical Name	CAS
Isophoronediamine	2855-13-2
Diethylenetriamine	111-40-0

**OTHER GOVT. REGULATIONS:** No other information available

**16. OTHER INFORMATION**

<b>DATE CREATED</b>	05-19-15
---------------------	----------

**MANUFACTURER DISCLAIMER:** The information contained herein is accurate to the best of our knowledge. Dudick, Inc. makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances and with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. The information contained on this MSDS has been compiled from information obtained from raw material suppliers and is believed to be accurate. It is the responsibility of the user to ensure that he/she has all of the current data and MSDS relevant to the material thereon and to comply with all Federal, State and Local Regulations.