

Section 1 - Product and Company Identification

**Trade Name:** PPA Hardener

**Company:**

IntegraCoat Solutions  
340 Riddle Road  
Pauline, SC 29374  
+1 (864) 582-6575

**Emergency Contact: ChemTel 24 Hr.**

US Emergency Number:  
+1 (800) 255-3934  
Worldwide Emergency Number:  
+1 (813) 248-0585

**Product Use:** Coatings

**Not Recommended For:** None Identified

Section 2 - Hazards Identification

**GHS Ratings:**

|  |    |   |
|--|----|---|
| Flammable liquid                                 | 3  | Flash point $\geq 23^{\circ}\text{C}$ and $\leq 60^{\circ}\text{C}$ (140°F)   |
| Acute Toxicity - Inhalation                      | 4  | Gases $>2500$ + $\leq 20000$ ppm, Vapors $>10$ + $\leq 20$ mg/l, Dusts & mists $>1$ + $\leq 5$ mg/l   |
| Skin corrosion/irritation                        | 2  | Reversible adverse effects in dermal tissue, Draize score: $\geq 2.3 < 4.0$ or persistent inflammation  |
| Serious eye damage/eye irritation                | 2A | Eye irritant: Subcategory 2A, Reversible in 21 days   |
| Respiratory sensitization                        | 1  | Respiratory sensitizer  |
| Skin sensitization                               | 1  | Skin Sensitizer   |
| Carcinogenicity                                  | 2  | Limited evidence of human or animal carcinogenicity   |
| Specific target organ toxicity single exposure   | 3  | Transient target organ effects- Narcotic effects- Respiratory tract irritation  |
| Specific target organ toxicity repeated exposure | 2  | Presumed to be harmful to human health- Animal studies with significant toxic effects relevant to humans at generally moderate exposure (guidance)- Human evidence in exceptional cases |

**GHS Hazards:**

|      |   |
|------|---|
| H226 | Flammable liquid and vapour   |
| H315 | Causes skin irritation  |
| H317 | May cause an allergic skin reaction                                       |
| H319 | Causes serious eye irritation   |
| H332 | Harmful if inhaled  |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled |
| H335 | May cause respiratory irritation  |
| H336 | May cause drowsiness or dizziness   |
| H351 | Suspected of causing cancer   |
| H373 | May cause damage to organs through prolonged or repeated exposure         |

**GHS Precautions:**

|      |  |
|------|--|
| P201 | Obtain special instructions before use                                   |
| P202 | Do not handle until all safety precautions have been read and understood |

|                |   |
|----------------|---|
| P210           | Keep away from heat/sparks/open flames/hot surfaces – No smoking  |
| P233           | Keep container tightly closed   |
| P240           | Ground/bond container and receiving equipment   |
| P241           | Use explosion-proof electrical/ventilating/light/equipment  |
| P242           | Use only non-sparking tools   |
| P243           | Take precautionary measures against static discharge  |
| P260           | Do not breathe dust/fume/gas/mist/vapours/spray   |
| P261           | Avoid breathing dust/fume/gas/mist/vapours/spray  |
| P264           | Wash 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   |
| P281           | Use personal protective equipment as required   |
| P285           | In case of inadequate ventilation wear respiratory protection   |
| P312           | Call a POISON CENTER or doctor/physician if you feel unwell   |
| P314           | Get Medical advice/attention if you feel unwell   |
| P321           | Specific treatment (see label)  |
| P362           | Take off contaminated clothing and wash before reuse  |
| P363           | Wash contaminated clothing before reuse   |
| P302+P352      | IF ON SKIN: Wash with soap and water  |
| P303+P361+P353 | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with                        |
| P304+P340      | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathin                      |
| P304+P341      | IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position cc breathing       |
| P305+P351+P338 | IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if prese do – continue rinsing |
| P308+P313      | IF exposed or concerned: Get medical advice/attention   |
| P332+P313      | If skin irritation occurs: Get medical advice/attention   |
| P333+P313      | If skin irritation or a rash occurs: Get medical advice/attention   |
| P337+P313      | If eye irritation persists, get medical advice/attention  |
| P342+P311      | Call a POISON CENTER or doctor/physician  |
| P370+P378      | In case of fire: Use carbon dioxide, alcohol-resistant foam, dry chemical, dry sand, or water fo extinction         |
| P405           | Store locked up   |
| P403+P233      | Store in a well ventilated place. Keep container tightly closed   |
| P403+P235      | Store in a well ventilated place. Keep cool   |
| P501           | Dispose of contents/container in accordance with all local, regional, national, and internation                     |

**Signal Word:** Danger



### Section 3 - Composition / Information on Ingredients

| Chemical Name                       | CAS number | Weight Concentration % |
|-------------------------------------|------------|------------------------|
| 1,6-Diisocyanatohexane homopolymer  | 28182-81-2 | 60.00% - 70.00%        |
| 1-Chloro-4-(trifluoromethyl)benzene | 98-56-6    | 20.00% - 30.00%        |

### Section 4 - First Aid Measures

**Inhalation:** If affected, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial

respiration. Get medical attention.

**Eye Contact:** Immediately flush eyes for at least fifteen minutes with running water. Hold eyelids apart to ensure rinsing of the entire eye surface and lids with water. If eye irritation persists: Get medical advice/attention.

**Skin contact:** Immediately remove contaminated clothing and shoes. Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.

**Ingestion:** Do not induce vomiting. Never give anything by mouth to an unconscious person. If a person vomits when lying on his back, place him in the recovery position. Get immediate medical attention.

## Section 5 - Fire Fighting Measures

**Flash Point:** 215 C (419 F) LEL: UEL:

**Extinguishing Media:** Use carbon dioxide, foam, dry chemical, dry sand, water fog, or limestone powder extinguishing systems.

**Unusual Fire and Explosion Hazards:** None

**Hazardous combustion products:** Irritating or toxic substances may be emitted upon burning, combustion or decomposition. See section 10 (Stability and Reactivity) for additional information.

**Special Fire Fighting Procedures:** Firefighters should be equipped with self-contained breathing apparatus.

**Fire Equipment:** No Data

## Section 6 - Accidental Release Measures

**Spill And Leak Procedures:** Avoid all personal contact. Ensure cleanup personnel wear all appropriate Personal Protective Equipment (PPE), including respiratory protection. Spills should be contained, solidified, and placed in suitable containers for disposal.

## Section 7 - Handling and Storage

**Handling Precautions:** Use good laboratory/workplace procedures. Wash thoroughly after handling this product. Always wash up before eating, smoking or using the facilities. Use under well-ventilated conditions. Avoid eye and skin contact. Avoid inhalation of aerosol, mist, spray, fume or vapor. Avoid drinking, tasting, swallowing or ingesting this product. Wash contaminated clothing before reuse. Discard shoes contaminated with this product.

**Storage Requirements:** Keep away from heat, sparks, and open flames. Store cool and dry, under well-ventilated conditions. Store this material away from incompatible substances (see section 10). Do not store in open, unlabeled or mislabeled containers. Keep container closed when not in use.

## Section 8 - Exposure Controls / Personal Protection

| Chemical Name / CAS #                            | OSHA Exposure Limits | ACGIH Exposure Limits | Other Exposure Limits |
|--|----------------------|-----------------------|-----------------------|
| 1,6-Diisocyanatohexane homopolymer<br>28182-81-2 | Not Established      | Not Established       | Not Established       |
| 1-Chloro-4-(trifloromethyl) benzene<br>98-56-6   | Not Established      | Not Established       | Not Established       |

**Ventilation:** Good general mechanical ventilation and local exhaust is recommended.

**Hygiene:** Eye wash must be easily accessible. Wear protective clothing as necessary to prevent contact. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. Gloves must be inspected regularly and prior to each use. Replace if necessary.

**Personal Protective Equipment:** Wear impervious protective gloves. Wear OSHA, NIOSH approved organic vapor respirator if ventilation is inadequate. Wear appropriate protective eyewear such as splash-proof, chemical resistant safety goggles.

**Contaminated Gear:** Take off all contaminated clothing immediately. Wash contaminated clothing before reuse.

## Section 9 - Physical and Chemical Properties

This mixture typically exhibits the following properties under normal circumstances:

|  |   |
|--|---|
| <b>Appearance:</b> Liquid                      | <b>Odor:</b> Not available                                    |
| <b>Vapor Pressure:</b> 0.0010 mmHg             | <b>Odor threshold:</b> Not available                          |
| <b>Vapor Density:</b> Not available            | <b>pH:</b> Not available                                      |
| <b>Density (g/cm3):</b> 1.21                   | <b>Melting point:</b> Not available                           |
| <b>Freezing point:</b> Not available           | <b>Solubility:</b> Not available                              |
| <b>Boiling range:</b> Not available            | <b>Flash point:</b> 215°C, 419°F                              |
| <b>Evaporation rate:</b> Not available         | <b>Flammability:</b> Not available                            |
| <b>Explosive Limits:</b> Not available         | <b>Partition coefficient (n-octanol/water):</b> Not available |
| <b>Autoignition temperature:</b> Not available | <b>Decomposition temperature:</b> Not available               |
| <b>Viscosity:</b> Not available                | <b>Grams VOC less water:</b> Not available                    |

## Section 10 - Stability and Reactivity

### Stability:

STABLE

### Components of this mixture are incompatible with the following materials:

Strong Oxidizers  
Strong Bases  
Amines  
Metals  
Alcohols  
Water  
Surface Active Materials

### This mixture is likely to exhibit the following combustion products:

Nitrogen Oxides  
Hydrogen Cyanide  
Isocyanate  
Carbon Dioxide, Carbon Monoxide  
Chlorides

Hazardous polymerization will not occur.

## Section 11 - Toxicological Information

### Mixture Toxicity:

Dermal Toxicity LD50: 4,443mg/kg  
Inhalation Toxicity LC50: 509mg/L

### Component Toxicity:

28182-81-2      1,6-Diisocyanatohexane homopolymer  
Oral LD50: 5,000 mg/kg (rat)    Dermal LD50: 5,000 mg/kg (rabbit)  
98-56-6      1-Chloro-4-(trifluoromethyl)benzene  
Dermal LD50: 3,300 mg/kg (rabbit)    Inhalation LC50: 32 mg/L (rat)

### Routes of Entry:

Inhalation      Skin Contact      Eye Contact      Ingestion

**Exposure to this material may affect the following organs:**

None

The following chemicals comprise 0.1% or more of this mixture and are listed and/or classified as carcinogens or potential carcinogens by NTP, IARC, OSHA (mandatory listing), or ACGIH (optional listing):

| <u>CAS Number</u> | <u>Description</u> | <u>% Weight</u> | <u>Carcinogen Rating</u> |
|-------------------|--------------------|-----------------|--------------------------|
| None              |                    |                 | None                     |

## Section 12 - Ecological Information

### Component Ecotoxicity:

1-Chloro-4-(trifluoromethyl)benzene LC50 3mg/l fish 96H; EC50 2mg/l water flea 48H, NOEC 0.41 mg/l algae 72H

## Section 13 - Disposal Considerations

**Waste disposal Methods:** Dispose in accordance with Federal, State and Local regulations.

## Section 14 - Transport Information

This material is classified for transport as follows:

| <u>Agency</u> | <u>Proper Shipping Name</u> | <u>UN Number</u> | <u>Packing Group</u> | <u>Hazard Class</u> |
|---------------|-----------------------------|------------------|----------------------|---------------------|
| DOT           | Chlorobenzofluorides        | 2234             | III                  | 3                   |

## Section 15 - Regulatory Information

**Additional regulatory listings, where applicable:**

| <u>Country</u> | <u>Regulation</u> | <u>All Components Listed</u> |
|----------------|-------------------|------------------------------|
|----------------|-------------------|------------------------------|

### EU Risk Phrases

### Safety Phrase

Toxic Substances Control Act (TSCA): All chemicals except those listed below appear in the Toxic Substances Control Act Chemical Substance Inventory:

None

EPA SARA Title III Section 313 ( 40 CFR 372) compnenets above 'de minimum' level:

## Section 16 - Other Information

For further information, please contact the Product Safety director. The information and recommendations contained herein are, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Final determination of suitability of the chemical is the sole responsibility of the user. Users of any chemical should satisfy themselves that the conditions and methods of use assure that the chemical is used safely. No representations or warranties, either expressed or implied of merchantability, fitness for a particular purpose, or any other nature, are made hereunder with respect to the information contained herein, or to the chemical to which the user refers.

