



MIL-PRF-85285E, POLYURETHANE TOPCOAT TWO COMPONENT TOUCH-UP

PEN Type I, Type II, Type IV -Class H

Product filled by :  
Delaware Paint Company 8455  
Rausch Drive Plain City Ohio  
43064 740-368-9981

## SAFETY DATA SHEET

FOR COATINGS AND RELATED PRODUCTS

*This Safety Data Sheet has been updated in accordance with the Global Harmonized System (GHS).*

### SECTION 1. Identification

NSN: 8010-01-441-9699

Type I, II, IV Light Gray #16440 (Part A)

Revision Date: 04 October 22  
Supersedes: 09 July 18

#### Relevant identified uses of the substance or mixture:

Application of the mixture: For coatings and related products

Product Use/Class: Solution Coating

#### MANUFACTURER:

Gibraltar Chemical Works, Inc.  
114 E. 168th Street  
South Holland, IL 60473  
Phone: 1-708-333-0600

#### 24-HOUR Chemical Emergency Number:

CHEMTREC Telephone Number: (800) 688-4005 CCN705637  
CHEMTREC (Outside U.S. and Canada) Telephone Number: +1 703-527-3887

### SECTION 2. Hazard Identification

#### United States (US)

According to OSHA 29 CFR 1910.1200 HCS

#### UN GHS

**GHS Classification:** Mixture - Flammable Liquid - Category 3; Sensitisation, skin - Category 1;  
Serious eye damage/eye irritation - Category 2A

**Signal Word:** WARNING

Flammable Liquid and Vapour 3



#### Hazard Statements:

H226 – Flammable liquid and vapour

H317 – May cause an allergic skin reaction

H319 – Causes serious eye irritation

#### Precautionary Statements:

P210+P243 – Keep away from extreme heat and open flame. Prevent static discharge. Overheated sealed containers may build up pressure and burst. Vapor is heavier than air and can travel considerable distance to a source of ignition.

P378 – Use foam, dry chemical, carbon dioxide, or any Class B extinguishing agent to extinguish. Water may not be suitable as an extinguishing medium, but is helpful in keeping adjacent containers cool.

P331 + P313 – If ingested, DO NOT induce vomiting. Get medical attention.

P305+P351+313 – If in eyes flush with copious amounts of water for 15 minutes. Get medical attention.

### SECTION 3. Composition/Information on Hazardous Ingredients

**Substance:** Material does not meet the criteria of a substance.

**Mixture:**

INGREDIENT	CAS #	WEIGHT %	GHS (H) CODES
2,4 PENTANEDIONE	123-54-6	0-5	226,301,311,318,340
PCBTF	98-56-6	30-50	226,315,319,335
ACETONE	67-64-1	3-12	225,319,336
DIMETHYL CARBONATE	616-38-6	5-20	225
TITANIUM DIOXIDE	13463-67-7	1-10	

### SECTION 4. First Aid Measures

#### Description of First Aid Measures:

**Skin:** Wash immediately with soap and water.

**Eye:** Flush with copious amounts of water for 15 minutes. Get medical attention.

**Inhalation:** Move to fresh air immediately. If coughing, difficult breathing, or any other respiratory symptoms develop, seek medical attention at once.

**Ingestion:** DO NOT induce vomiting. Get medical attention.

#### Indication of any immediate medical attention and special treatment needed:

Notes to Physician – All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

### SECTION 5. Fire-fighting Measures

**Suitable Extinguishing Media:** Foam, dry chemical, carbon dioxide, or any Class B extinguishing agent. Water may not be suitable as an extinguishing medium, but is helpful in keeping adjacent containers cool.

**Unusual Fire and Explosion Hazards:** Keep away from extreme heat and open flame. Prevent static discharge. Overheated sealed containers may build up pressure and burst. Vapor is heavier than air and can travel outside considerable distance to a source of ignition.

### SECTION 6. Accidental Release Measures

**Steps to take if spilled:** Remove ignition sources. Cover the spill with absorbent material. If spill is large, dike to contain. Collect and containerize absorbed material for recovery or disposal.

**Waste Disposal:** Dispose of in accordance with Federal, State or Local regulations regarding environmental control.

### SECTION 7. Handling and Storage

**Precautions for safe handling:** Do not handle the product in the presence of heat, sparks, or open flame. Ground and bond all containers when transferring.

**Conditions for safe storage:** Store between 40° F and 100° F.

### SECTION 8. Exposure Controls/Personal Protection

INGREDIENT	CAS #	OSHA - PEL - TWA	ACGIH - TLV - TWA
2,4 PENTANEDIONE	123-54-6	20 ppm	
PCBTF	98-56-6		
ACETONE	67-64-1	1000 ppm	500 ppm
DIMETHYL CARBONATE	616-38-6		
TITANIUM DIOXIDE	13463-67-7	N.A.	N.A.



**Respiratory Protection:** In locations with marginal exhaust facilities good practice requires the use of a respirator that is recommended for use in solvent-containing areas.

**Ventilation:** Ventilation is required to maintain air concentrations below TLV. If material alone or in a system, is spray applied, local ventilation should be provided and a respirator should be worn.

**Protective Gloves:** Solvent-resistant gloves should be worn.

**Eye Protection:** Safety glasses or chemical goggles should be worn.

## SECTION 9. Physical and Chemical Properties

**Weight/Gallon:** 9.00-11.00 #/G

**% Volatile by Volume:** 58.0-69.0 %

**V.O.C. as supplied:** 0.0-2.0 #/G 0-30 gm/l **Regulatory V.O.C.:** 0-300 gm/l

**Appearance:** Liquid

**Odor:** Not Relevant

**Odor threshold:** Not Relevant  
Not Relevant

**Melting Point/freezing point:** Not Relevant

**Initial Boiling point and boiling range:** 132-304 °F

**Flash Point:** < 100 °F

**Evaporation Rate:** Slower than n-Butyl Acetate

**Flammability (solid, gas)** Not Relevant

**Lower Explosion Limit:** 0.9

**Vapor Pressure:** Not Relevant

**Vapor Density:** Heavier than air

**Relative Density:** Not Relevant

**Solubility(ies):** Not Relevant

**Partition coefficient; n-octanol/water:** Not Relevant

**Auto-ignition temperature:** Not Relevant

**Decomposition temperture:** Not Relevant

**Viscosity:** Data Lacking

## SECTION 10. Stability and Reactivity

**Reactivity:** No dangerous reaction known under conditions of normal use.

**Chemical Stability:** Stable under normal temperature and pressures.

**Possibility of hazardous reactions:** Overheated sealed containers may buildup pressure and burst.

**Conditions to avoid:** Heat, sparks, open flames.

**Incompatible materials:** None

**Possibility of hazardous reactions:** Carbon Dioxide, Carbon Monoxide 0

## SECTION 11. Toxicological Information

There is no data available on the mixture itself. See Sections 2 and 3 for details.

## SECTION 12. Ecological Information

There is no data available on the mixture itself. Do not allow to enter drains or watercourses

## SECTION 13. Disposal Considerations

Dispose of in accordance with Federal, State, or Local regulations regarding environmental control.

## SECTION 14. Transportation Information

**DOT Shipping Name:** Paint

**DOT Hazard Class:** 3

**DOT UN/NA Number:** UN1263

**DOT Packing Group:** III

**DOT ERG:** 26

## SECTION 15. Regulatory Information

**TSCA Inventory:** All components are listed on the TSCA Inventory.

**HMIS:** 2 3 0 B

### California Proposition 65 Carcinogens:

Warning: The following ingredients present in the product are known to the state of California to cause cancer

<u>Chemical Name</u>	<u>CAS #</u>
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### California Proposition 65 Carcinogens:

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.

<u>Chemical Name</u>	<u>CAS #</u>
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## SECTION 16. Other Information

The information on this SDS was obtained from sources we believe to be reliable. However, the information provided is without any warranty, expressed or implied, regarding its correctness. The information and recommendations are offered for the user's consideration and examination and should be used to make an independent determination of the methods to safeguard workers and the environment. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For these reasons we do not assume responsibility and expressly disclaim any liability for loss, damage or expense arising out of or in any way connected with handling, storage, use, or disposal of this product. It is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.



## SAFETY DATA SHEET

### FOR COATINGS AND RELATED PRODUCTS

This Safety Data Sheet has been updated in accordance with the Global Harmonized System (GHS).

#### SECTION 1. Identification

Trade Name: **C16-4**

**CATALYST**

Revision Date: 14 February 22

Supersedes: 27 September 21

#### Relevant identified uses of the substance or mixture:

Application of the mixture: For coatings and related products

Product Use/Class: Aliphatic Isocyanate

#### MANUFACTURER:

Gibraltar Chemical Works, Inc.  
114 E. 168th Street  
South Holland, IL 60473  
Phone: 1-708-333-0600

#### 24-HOUR Chemical Emergency Number:

CHEMTREC Telephone Number: (800) 688-4005 CCN705637  
CHEMTREC (Outside U.S. and Canada) Telephone Number: +1 703-527-3887

#### SECTION 2. Hazard Identification

##### United States (US)

According to OSHA 29 CFR 1910.1200 HCS

##### UN GHS

**GHS Classification:** Mixture - Flammable Liquid - Category 3; Sensitisation, skin - Category 1;  
Serious eye damage/eye irritation - Category 2A

**Signal Word** WARNING

Flammable Liquid and Vapour 3



#### Hazard Statements:

H226 - Flammable liquid and vapour

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

#### Precautionary Statements:

P210+P243 – Keep away from extreme heat and open flame. Prevent static discharge. Overheated sealed containers may build up pressure and burst. Vapor is heavier than air and can travel considerable distance to a source of ignition.

P378 – Use foam, dry chemical, carbon dioxide, or any Class B extinguishing agent to extinguish. Water may not be suitable as an extinguishing medium, but is helpful in keeping adjacent containers cool.

P331 + P313 – If ingested, DO NOT induce vomiting. Get medical attention.

P305+P351+313 – If in eyes flush with copious amounts of water for 15 minutes. Get medical attention.

### SECTION 3. Composition/Information on Hazardous Ingredients

**Substance:** Material does not meet the criteria of a substance.

**Mixture:**

INGREDIENT	CAS #	WEIGHT %	GHS (H) CODES
METHYL AMYL KETONE	110-43-0	40-45	226,302,336
HDI TRIMER	28182-81-2	53-57	334, 332, 317, 335

### SECTION 4. First Aid Measures

**Description of First Aid Measures:**

**Skin:** Wash immediately with soap and water.

**Eye:** Flush with copious amounts of water for 15 minutes. Get medical attention.

**Inhalation:** Move to fresh air immediately. If coughing, difficult breathing, or any other respiratory symptoms develop, seek medical attention at once.

**Ingestion:** DO NOT induce vomiting. Get medical attention.

**Indication of any immediate medical attention and special treatment needed:**

Notes to Physician – All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

### SECTION 5. Fire-fighting Measures

**Suitable Extinguishing Media:** Foam, dry chemical, carbon dioxide, or any Class B extinguishing agent. Water may not be suitable as an extinguishing medium, but is helpful in keeping adjacent containers cool.

**Unusual Fire and Explosion Hazards:** Keep away from extreme heat and open flame. Prevent static discharge. Overheated sealed containers may build up pressure and burst. Vapor is heavier than air and can travel outside considerable distance to a source of ignition.

### SECTION 6. Accidental Release Measures

**Steps to take if spilled:** Remove ignition sources. Cover the spill with absorbent material. If spill is large, dike to contain. Collect and containerize absorbed material for recovery or disposal.

**Waste Disposal:** Dispose of in accordance with Federal, State or Local regulations regarding environmental control.

### SECTION 7. Handling and Storage

**Precautions for safe handling:** Do not handle the product in the presence of heat, sparks, or open flame. Ground and bond all containers when transferring.

**Conditions for safe storage:** Store between 40° F and 100° F.

### SECTION 8. Exposure Controls/Personal Protection

INGREDIENT	CAS #	OSHA - PEL - TWA	ACGIH - TLV - TWA
METHYL AMYL KETONE	110-43-0	100 ppm	50 ppm
HDI TRIMER	28182-81-2	0.05 mg/m3	--



**Respiratory Protection:** In locations with marginal exhaust facilities good practice requires the use of a respirator that is recommended for use in solvent-containing areas.

**Ventilation:** Ventilation is required to maintain air concentrations below TLV. If material alone or in a system, is spray applied, local ventilation should be provided and a respirator should be worn.

**Protective Gloves:** Solvent-resistant gloves should be worn.

**Eye Protection:** Safety glasses or chemical goggles should be worn.

## SECTION 9. Physical and Chemical Properties

**Weight/Gallon:** 8.17 #/G  
**% Volatile by Volume:** 52.60 %  
**V.O.C. as supplied:** 3.58 #/G      429 gm/l      **Regulatory V.O.C.:** 429 gm/l

<b>Appearance:</b> Liquid	<b>Lower Explosion Limit:</b> na
<b>Odor:</b> Not Relevant	<b>Vapor Pressure:</b> Not Relevant
<b>Odor threshold:</b> Not Relevant	<b>Vapor Density:</b> Heavier than air
<b>pH:</b> Not Relevant	<b>Relative Density:</b> Not Relevant
<b>Melting Point/freezing point:</b> Not Relevant	<b>Solubility(ies):</b> Not Relevant
<b>Initial Boiling point and boiling range:</b> 304-397 °F	<b>Partition coefficient; n-octanol/water:</b> Not Relevant
<b>Flash Point:</b> > 100 °F	<b>Auto-ignition temperature:</b> Not Relevant
<b>Evaporation Rate:</b> Slower than n-Butyl Acetate	<b>Decomposition temperture:</b> Not Relevant
<b>Flammability (solid, gas)</b> Not Relevant	<b>Viscosity:</b> Data Lacking

## SECTION 10. Stability and Reactivity

**Reactivity:** No dangerous reaction known under conditions of normal use.  
**Chemical Stability:** Stable under normal temperature and pressures.  
**Possibility of hazardous reactions:** Overheated sealed containers may buildup pressure and burst.  
**Conditions to avoid:** Heat, sparks, open flames.  
**Incompatible materials:** None  
**Possibility of hazardous reactions:** Carbon Dioxide, Carbon Monoxide

## SECTION 11. Toxicological Information

There is no data available on the mixture itself. See Sections 2 and 3 for details.

## SECTION 12. Ecological Information

There is no data available on the mixture itself. Do not allow to enter drains or watercourses

## SECTION 13. Disposal Considerations

Dispose of in accordance with Federal, State, or Local regulations regarding environmental control.

## SECTION 14. Transportation Information

**DOT Shipping Name:** Paint  
**DOT Hazard Class:** 3  
**DOT UN/NA Number:** UN1263  
**DOT Packing Group:** III  
**DOT ERG:** 26

## SECTION 15. Regulatory Information

**TSCA Inventory:** All components are listed on the TSCA Inventory.

**HMIS:** 2 3 0 B

### California Proposition 65 Carcinogens:

Warning: The following ingredients present in the product are known to the state of California to cause cancer.

Chemical Name

CAS #

### California Proposition 65 Reproductive Toxins:

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.

Chemical Name

CAS #

## SECTION 16. Other Information

The information on this SDS was obtained from sources we believe to be reliable. However, the information provided is without any warranty, expressed or implied, regarding its correctness. The information and recommendations are offered for the user's consideration and examination and should be used to make an independent determination of the methods to safeguard workers and the environment. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For these reasons we do not assume responsibility and expressly disclaim any liability for loss, damage or expense arising out of or in any way connected with handling, storage, use, or disposal of this product. It is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.