



# Material Safety Data Sheet

**CHEMTREC Transportation Emergency Phone:**  
**800-424-9300**  
**Pittsburgh Poison Control Center Health**  
**Emergency No.: 412-681-6669**

NOTE: The CHEMTREC Transportation Emergency Phone is to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals

## 1. Identification

**Product Name:** CARBOTHANE 8845 PART A MIXED METAL OXIDE      **Revision Date:** 4/17/2015

**Identification Number:** 8845A1YL      **Supersedes Date:** 4/2/2015

**Product Use/Class:** FOR INDUSTRIAL USE ONLY

**Manufacturer:** Carboline Company      **Preparer:** Regulatory Department  
 2150 Schuetz Road  
 St. Louis, MO 63146  
 800-848-4645

## 2. Hazard Identification

**EMERGENCY OVERVIEW:** This product may contain Titanium Dioxide, which is listed by IARC as possibly carcinogenic to humans (Group 2B). This listing is based on inadequate evidence of carcinogenicity in humans and sufficient evidence in experimental animals. IARC considers Nickel compounds to be carcinogenic to humans (Monograph #49). This product contains MIXED METAL OXIDE Pigments which are the result of high temperature calcination of the component substances. Due to their unique crystalline structure, the properties of these pigments do not necessarily reflect the properties of the component metals or oxides. Some compounds of the metals used in the manufacturing of these pigments have demonstrated various toxic properties. However, there is no evidence that these pigments have these toxic characteristics. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. **WARNING! FLAMMABLE LIQUID AND VAPOR.** Use with adequate ventilation. Keep container closed. Harmful if inhaled. Wash thoroughly after handling.

**EFFECTS OF OVEREXPOSURE - EYE CONTACT:** May cause eye irritation.

**EFFECTS OF OVEREXPOSURE - SKIN CONTACT:** May cause skin irritation.

**EFFECTS OF OVEREXPOSURE - INHALATION:** Harmful if inhaled. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Vapours may be irritating to eyes, nose, throat, and lungs.

**EFFECTS OF OVEREXPOSURE - INGESTION:** Harmful if swallowed.

**EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS:** Repeated and prolonged exposure to solvents may cause brain and nervous system damage.

**MEDICAL CONDITIONS PRONE TO AGGRAVATION:** No information available.

**PRIMARY ROUTE(S) OF ENTRY:** Eye Contact, Ingestion, Inhalation, Skin Contact

## 3. Composition/Information On Ingredients

### Hazardous Ingredients

Chemical Name	CAS-No.	Weight % Less Than	ACGIH TLV- TWA	ACGIH TLV- STEL	OSHA PEL-TWA	OSHA PEL- CEILING
BARITE	13462-86-7	35.0	0.5 MGM3	N/E	0.5 MGM3	N/E
TITANIUM DIOXIDE	13463-67-7	20.0	10 MGM3	N/E	10 MGM3	N/E
NICKEL ANTIMONY COMPOUND	8007-18-9	10.0	0.5 MGM3	N/E	0.5 MGM3	N/E
N-BUTYL ACETATE	123-86-4	10.0	150 PPM	200 PPM	710 MG/M3	N/E
METHYL ETHYL KETONE	78-93-3	10.0	200 PPM	300 PPM	590 MGM3	N/E

ETHOXYPROPIONATE	763-69-9	5.0	N/E	N/E	N/E	N/E
TERT-BUTYL ACETATE	540-88-5	5.0	200 PPM	N/E	950 MGM3	N/E
CHROME ANTIMONY COMPOUND	68186-90-3	5.0	0.5 MG/M3	N/E	0.5 MG/M3	N/E
ALIPHATIC DIOL	TRADE SECRET	5.0	25 PPM	N/E	25 PPM	N/E
ETHYL BENZENE	100-41-4	1.0	20 PPM	N/E	435 MGM3	N/E
MICROCRYSTALLINE SILICA	14808-60-7	1.0	0.025 MG/M3 (respirable)	N/E	0.1 MG/M3 (respirable)	N/E

#### 4. First-aid Measures

**AFTER EYE CONTACT:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**AFTER SKIN CONTACT:** If skin irritation persists, call a physician. In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

**AFTER INHALATION:** Give oxygen or artificial respiration if needed. Remove person to fresh air. If signs/symptoms continue, get medical attention.

**AFTER INGESTION:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If swallowed, call a poison control centre or doctor immediately.

#### 5. Fire-fighting Measures

<b>Flash Point, °F:</b> (Setaflash)	63F (17C)	<b>Lower Explosive Limit, %:</b>	1.0
		<b>Upper Explosive Limit, %:</b>	36.0

**Extinguishing Media:** Carbon Dioxide, Dry Chemical, Foam, Water Fog

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Wear shoes with conductive soles. Flammable liquid. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Vapors may travel to areas away from work site before igniting/flashing back to vapor source. Provide adequate ventilation. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Electrical installations / working materials must comply with the technological safety standards.

**SPECIAL FIREFIGHTING PROCEDURES:** In the event of fire, wear self-contained breathing apparatus. Cool containers / tanks with water spray. Flammable.

#### 6. Accidental Release Measures

**PERSONAL SAFETY MEASURES/ENVIRONMENTAL MEASURES/METHOD OF CLEANING/CONTAINMENT:** To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Wear personal protective equipment. For personal protection see section 8.

#### 7. Handling and Storage

**INSTRUCTIONS FOR SAFE HANDLING :** Do not breathe vapours or spray mist. Prepare the working solution as given on the label (s) and/or the user instructions. Ensure all equipment is electrically grounded before beginning transfer operations. Do not use sparking tools. Wash thoroughly after handling. Keep containers dry and tightly closed to avoid moisture absorption and contamination. Do not get in eyes, on skin, or on clothing. Use only with adequate ventilation/personal protection.

**STORAGE CONDITIONS:** Keep container closed when not in use. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.

#### 8. Exposure Controls/Personal Protection

**ENGINEERING CONTROLS:** Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas.

**RESPIRATORY PROTECTION:** In order to avoid inhalation of spray-mist and sanding dust, all spraying and sanding must be done wearing adequate respirator. Use only with ventilation to keep levels below exposure guidelines reported in this document. User should test and monitor exposure levels to ensure all personnel are below guidelines. If not sure, or not able to monitor, use State or federally approved supplied air respirator. For silica containing coatings in a liquid state, and/or if no exposure limits are established above, air-supplied respirators are generally not required.

**HAND PROTECTION:** Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Impervious gloves Request information on glove permeation properties from the glove supplier.

**EYE PROTECTION:** Safety glasses with side-shields.

**OTHER PROTECTIVE EQUIPMENT:** Ensure that eyewash stations and safety showers are close to the workstation location. Lightweight protective clothing

**PROTECTION AND HYGIENE MEASURES :** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.

## 9. Physical and Chemical Properties

<b>Boiling Range:</b>	149 F (65 C) - 595 F (313 C)	<b>Vapor Density:</b>	Heavier than Air
<b>Odor:</b>	Solvent	<b>Odor Threshold:</b>	N/D
<b>Appearance:</b>	Viscous Liquid, Various Colors	<b>Evaporation Rate:</b>	Slower Than Ether
<b>Solubility in Water:</b>	N/D	<b>Specific Gravity:</b>	app. 1.47
<b>Freeze Point:</b>	N/D	<b>pH:</b>	N/D
<b>Physical State:</b>	Liquid	<b>Vapor Pressure:</b>	No Information

(See section 16 for abbreviation legend)

## 10. Stability and Reactivity

**CONDITIONS TO AVOID:** Heat, flames and sparks.

**MATERIALS TO AVOID:** Strong oxidizing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke.

**HAZARDOUS POLYMERIZATION:** Hazardous polymerisation does not occur.

**STABILITY:** Stable under normal conditions.

## 11. Toxicological Information

Chemical Name	CAS-No.	LD50	LC50
BARITE	13462-86-7	Not Available	Not Available
TITANIUM DIOXIDE	13463-67-7	25000 mg/m <sup>3</sup> , oral (rat)	6.82 mg/L, Inh, rat 4H
NICKEL ANTIMONY COMPOUND	8007-18-9	10000 mg/kg oral rat	Not Available
N-BUTYL ACETATE	123-86-4	10760 mg/kg, rat, oral	21 mg/l/4/h, Inh. rat
METHYL ETHYL KETONE	78-93-3	2194 mg/kg rat, oral	34.5 mg/L/ 4 hour rat, inhalation
ETHOXYPROPIONATE	763-69-9	5000 mg/kg, oral, rat	Not Available
TERT-BUTYL ACETATE	540-88-5	3160 mg/kg, oral, rat	4000 ppm/6 hours, rat inhalation
CHROME ANTIMONY COMPOUND	68186-90-3	>10000 MG/KG, ORAL, RAT	NOT AVAILABLE
ALIPHATIC DIOL	TRADE SECRET	Not Available	Not Available
ETHYL BENZENE	100-41-4	3500 mg/kg rat, oral	17.2 mg/L Inh, Rat, 4Hr

MICROCRYSTALLINE SILICA	14808-60-7	Not Available	Not Available
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## 12. Ecological Information

**ECOLOGICAL INFORMATION:** No information available.

## 13. Disposal Information

**WASTE TREATMENT METHODS:** If recycling is not practicable, dispose of in compliance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not burn, or use a cutting torch on, the empty drum. Dispose of in accordance with local regulations.

## 14. Transport Information

<b>DOT Proper Shipping Name:</b>	Paint	<b>Packing Group:</b>	II
<b>DOT Technical Name:</b>	N/A	<b>Hazard Subclass:</b>	N/A
<b>DOT Hazard Class:</b>	3	<b>Resp. Guide Page:</b>	128
<b>DOT UN/NA Number:</b>	UN1263		
<b>Additional Notes:</b>	No Information		

## 15. Regulatory Information

### U.S. Federal Regulations:

#### CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Fire Hazard, Chronic Health Hazard

#### Sara Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

<u>Chemical Name</u>	<u>CAS-No.</u>
NICKEL ANTIMONY COMPOUND	8007-18-9
ETHYL BENZENE	100-41-4

#### Toxic Substances Control Act:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

No TSCA 12(b) components exist in this product.

### U.S. State Regulations:

#### New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.

<u>Chemical Name</u>	<u>CAS-No.</u>
ACRYLIC COPOLYMER	TRADE SECRET
AZO PIGMENT	82199-12-0

#### Pennsylvania Right-To-Know:

The following non-hazardous ingredients are present in the product at greater than 3%.

<u>Chemical Name</u>	<u>CAS-No.</u>
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ACRYLIC COPOLYMER	TRADE SECRET
AZO PIGMENT	82199-12-0
AZO PIGMENT	2786-76-7
YELLOW PIGMENT	31837-42-0
ACRYLIC POLYOL	TRADE SECRET
CASTOR OIL	8001-79-4
COLOR PIGMENT	5567-15-7

**CALIFORNIA PROPOSITION 65:**

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

<u>Chemical Name</u>	<u>CAS-No.</u>
TITANIUM DIOXIDE	13463-67-7
NICKEL ANTIMONY COMPOUND	8007-18-9
ETHYL BENZENE	100-41-4
MICROCRYSTALLINE SILICA	14808-60-7
CARBON BLACK	1333-86-4

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-No.</u>
METHYL ALCOHOL	67-56-1
TOLUENE	108-88-3

**International Regulations:****CANADIAN WHMIS:**

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

Canadian WHMIS Class: B2, D2A, D2B

**16. Other Information****HMIS Ratings:**

**Health:** 2      **Flammability:** 3      **Reactivity:** 0      **Personal Protection:** X

**VOLATILE ORGANIC COMPOUNDS, GR/LTR MIXED (UNTHINNED):** 228

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

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