



# Material Safety Data Sheet

**CHEMTREC  
Transportation  
Emergency Phone: 800-424-9300**

**Pittsburgh Poison Control  
Center  
Health Emergency No.:  
412-681-6669**

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•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  
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## Section 1 - Chemical Product / Company Information

**Product Name:** CARBOTHANE 134 VOC PART A MIXED METAL OXIDE      **Revision Date:** 09/15/2011  
**Identification Number:** PLMSDS 0862A1YL      **Supercedes :** 02/24/2009  
**Product Use/Class:** Aliphatic Acrylic Polyurethane - FOR INDUSTRIAL USE ONLY  
**Preparer:** Regulatory, Department  
**Manufacturer:** Carboline Company  
2150 Schuetz Road  
St. Louis, MO 63146  
(800) 848-4645

## Section 2 - Composition / Information On Ingredients

Chemical Name	CAS Number	Weight % Less Than	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA-CEIL
NICKEL ANTIMONY COMPOUND	8007-18-9	30.0	0.5 MGM3	N/E	0.5 MGM3	0.5MG/M3
MICROCRYSTALLINE SILICA	14808-60-7	20.0	0.025 MG/M3 (respirable)	N/E	0.1 MG/M3 (respirable)	N/E
TITANIUM DIOXIDE	13463-67-7	20.0	10 MGM3	N/E	10 MGM3	N/E
PARACHLORO BENZO TRIFLUORIDE	98-56-6	15.0	N/E	N/E	N/E	N/E
N-BUTYL ACETATE	123-86-4	10.0	150 PPM	200 PPM	710 MG/M3	N/E
TOLUENE	108-88-3	5.0	20 PPM	N/E	375 MGM3	NE
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
ETHOXYPROPIONATE	763-69-9	5.0	N/E	N/E	N/E	N/E
ETHYL BENZENE	100-41-4	0.3	20 PPM	N/E	435 MGM3	N/E

## Section 3 - Hazards Identification

**Emergency Overview:** Warning! Flammable. Harmful if inhaled. Causes eye and skin irritation. Aspiration may cause lung damage. May cause dizziness and drowsiness. Keep away from heat, sparks, flame. Avoid breathing vapor. Avoid contact with eyes, skin and clothing. Do not swallow. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling. Contains SILICA which can cause cancer. Risk of Cancer depends on duration and level of exposure. 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. IARC considers Nickel compounds to be carcinogenic to humans (Monograph #49).

**Effects Of Overexposure - Eye Contact:** May cause eye irritation.

**Effects Of Overexposure - Skin Contact:** Direct skin contact may cause irritation.

**Effects Of Overexposure - Inhalation:** Harmful if inhaled, may affect the brain or nervous system, causing dizziness, headache, or nausea. May cause nose and throat irritation.

**Effects Of Overexposure - Ingestion:** Harmful if swallowed.

**Effects Of Overexposure - Chronic Hazards:** Crystalline silica is known to cause silicosis. Crystalline silica (Quartz) is classified as a known human carcinogen (Group 1) by IARC. Exposure is by route of inhalation. If material is in a liquid matrix it is unlikely to be inhaled. However, when sanding or grinding the finished product, there may be potential for crystalline silica to become airborne. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

**Primary Route(s) Of Entry:** Skin Contact, Skin Absorption, Inhalation, Ingestion, Eye Contact

**Medical Conditions Prone to Aggravation by Exposure:** If you have a condition that could be aggravated by exposure to dust or organic vapors, see a physician prior to use.

## Section 4 - First Aid Measures

**First Aid - Eye Contact:** If material gets into eyes, flush with water immediately for 15 minutes. Consult a physician.

**First Aid - Skin Contact:** In case of contact, immediately flush skin with plenty of water while removing contaminated clothing and shoes. Launder clothing before reuse. If rash or irritation develops, consult a physician.

**First Aid - Inhalation:** If inhaled, remove to fresh air. Administer oxygen if necessary. Consult a physician if symptoms persist or exposure was severe.

**First Aid - Ingestion:** If swallowed do not induce vomiting. Seek immediate medical attention.

## Section 5 - Fire Fighting Measures

**Flash Point, F:** 74F (23C)  
(Setaflash)

**Lower Explosive Limit, %:** 0.6  
**Upper Explosive Limit, %:** 10.5

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

**Unusual Fire And Explosion Hazards:** Flammable Liquid. Vapors are heavier than air and will accumulate. Vapors will form explosive concentrations with air. Vapors travel long distances and will flashback. Use mechanical ventilation when necessary to keep percent vapor below the "Lower Explosion Level" (LEL). Eliminate all ignition sources. Keep away from sparks, open flames and heat sources. All electric equipment and installations should be made and grounded in accordance with the National Electrical Code. In areas where explosion hazards exist, workers should be required to use non-ferrous tools and to wear conductive and non-sparking shoes.

**Special Firefighting Procedures:** Flammable. Cool fire-exposed containers using water spray.

## Section 6 - Accidental Release Measures

**Steps To Be Taken If Material Is Released Or Spilled:** Eliminate all ignition sources. Handling equipment must be grounded to prevent sparking. Evacuate the area of unprotected personnel. Wear appropriate personal protection clothing and equipment. Follow exposure controls/personal protection guidelines in Section 8. Contain and soak up residual with an absorbent (clay or sand). Take up absorbant material and seal tightly for proper disposal. Dispose of in accordance with local,

state and federal regulations. Refer to Section 15 for SARA Title III and CERCLA information.

## Section 7 - Handling And Storage

**Handling:** Do not get in eyes, on skin, or on clothing. Keep container tightly closed when not in use. Wear personal protection equipment. Do not breathe vapors. Wash thoroughly after handling. If pouring or transferring materials, ground all containers and tools. Do not weld, heat, cut or drill on full or empty containers. Use only in accordance with Carboline application instructions, container label and Product Data Sheet. Avoid breathing vapors or spray mist.

**Storage:** Keep away from heat, sparks, open flames and oxidizing agents. Keep containers closed. Store in a cool, dry place with adequate ventilation.

## Section 8 - Exposure Controls / Personal Protection

**Engineering Controls:** Use explosion-proof ventilation when required to keep below health exposure guidelines and Lower Explosion Limit (LEL).

**Respiratory Protection:** Use only with ventilation to keep levels below exposure guidelines listed in Section 2. User should test and monitor exposure levels to ensure all personnel are below guidelines. If not sure, or not able to monitor, use MSHA/NIOSH approved supplied air respirator. Follow all current OSHA requirements for respirator use. For silica containing coatings in a liquid state, and/or if no exposure limits are established in Section 2 above, supplied air respirators are generally not required.

**Skin Protection:** Recommend impervious gloves and clothing to avoid skin contact. If material penetrates to skin, change gloves and clothing. The use of protective creams may be beneficial to certain individuals. Protective creams should be applied before exposure.

**Eye Protection:** Recommend safety glasses with side shields or chemical goggles to avoid eye contact.

**Other protective equipment:** Eye wash and safety showers should be readily available.

**Hygienic Practices:** Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet facilities. Use of a hand cleaner is recommended. Launder contaminated clothing before reuse. Leather shoes can absorb and allow hazardous materials to pass through. Check shoes carefully after soaking before reuse.

## Section 9 - Physical And Chemical Properties

<b>Boiling Range:</b>	232F (111C) - 282 F (138 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 H2O:</b>	N/D		
<b>Freeze Point:</b>	N/D	<b>Specific Gravity:</b>	app. 1.47
<b>Vapor Pressure:</b>	N/D	<b>PH:</b>	N/D
<b>Physical State:</b>	Liquid		

(See section 16 for abbreviation legend)

## Section 10 - Stability And Reactivity

**Conditions To Avoid:** Heat, sparks and open flames.

**Incompatibility:** Keep away from strong oxidizing agents, heat and open flames.

**Hazardous Decomposition Products:** Carbon monoxide, nitrogen oxides, and unidentified organic compounds. Consider all smoke and fumes from burning material as very hazardous. Welding, cutting or abrasive grinding can create smoke and fumes. Do not breathe any fumes or smoke from these operations.

**Hazardous Polymerization:** Will not occur under normal conditions.

**Stability:** This product is stable under normal storage conditions.

## Section 11 - Toxicological Information

**Product LD50:** N/D

**Product LC50:** N/D

Chemical Name	CAS Number	LD50	LC50
NICKEL ANTIMONY COMPOUND	8007-18-9	>10,000MG/KG ORAL RAT	NOT AVAILABLE
MICROCRYSTALLINE SILICA	14808-60-7	NOT AVAILABLE	NOT AVAILABLE
TITANIUM DIOXIDE	13463-67-7	>25 G/KG, ORAL, RAT	>6.82 MG/L 4 HR, RAT
PARACHLOROBENZO TRIFLUORIDE	98-56-6	>2.7 G/KG, RABBIT	4479 PPM
N-BUTYL ACETATE	123-86-4	7.4 G/KG RABBIT ORAL	>1800 PPM/6H INHALATION
TOLUENE	108-88-3	5.0 G/KG RAT ORAL, 14G/KG RABBIT DERMAL	8000 PPM/4HRS, RAT, INHALATION
CHROME ANTIMONY COMPOUND	68186-90-3	>10000 MG/KG, ORAL, RAT	NOT AVAILABLE
ALIPHATIC DIOL	TRADE SECRET	NOT AVAILABLE	NOT AVAILABLE
ETHOXYPROPIONATE	763-69-9	NOT AVAILABLE	NOT AVAILABLE
ETHYL BENZENE	100-41-4	3500 MG/KG RAT,ORAL	NOT AVAILABLE

## Section 12 - Ecological Information

**Ecological Information:** No data

## Section 13 - Disposal Information

**Disposal Information:** Dispose of in accordance with State, Local, and Federal Environmental regulations. Responsibility for proper waste disposal is with the owner of the waste.

## Section 14 - Transportation Information

<b>DOT Proper Shipping Name:</b>	Paint	<b>Packing Group:</b>	III
<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>	1263		

**Additional Notes:** None.

## Section 15 - Regulatory Information

### 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:

IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE 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 Number</u>
NICKEL ANTIMONY COMPOUND	8007-18-9
TOLUENE	108-88-3
CHROME ANTIMONY COMPOUND	68186-90-3
ETHYL BENZENE	100-41-4

### TOXIC SUBSTANCES CONTROL ACT

All components of this product are listed on the TSCA inventory.

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) Substances exist in this product

### U.S. STATE REGULATIONS AS FOLLOWS:

#### 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 Number</u>
ACRYLIC COPOLYMER	TRADE SECRET

#### PENNSYLVANIA RIGHT-TO-KNOW

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

<u>Chemical Name</u>	<u>CAS Number</u>
ACRYLIC COPOLYMER	TRADE SECRET
POLYMER NON HAZARDOUS	TRADE SECRET
ORGANIC PIGMENT	5567-15-7
AZO PIGMENT	2786-76-7
ORANGE PIGMENT	15793-73-4
YELLOW IRON OXIDE	51274-00-1

#### 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 Number</u>
NICKEL ANTIMONY COMPOUND	8007-18-9
MICROCRYSTALLINE SILICA	14808-60-7
TITANIUM DIOXIDE	13463-67-7
ETHYL BENZENE	100-41-4
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 Number</u>
TOLUENE	108-88-3

### INTERNATIONAL REGULATIONS AS FOLLOWS:

#### 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

## **Section 16 - Other Information**

### **HMIS Ratings**

**Health:** 2

**Flammability:** 3

**Reactivity:** 1

**Personal Protection:** X

**VOLATILE ORGANIC COMPOUNDS, GR/LTR MIXED (UNTHINNED):** 190

**REASON FOR REVISION:** Changes in Section(s) 2, 11, and 15.

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

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