



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 134 MC PART A MIXED METAL OXIDE
Revision Date: 3/18/2015

Identification Number: 0870A1YL
Supersedes Date: 3/12/2015

Product Use/Class: FOR INDUSTRIAL USE ONLY

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

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. IARC has classified Cobalt and Cobalt compounds as possibly carcinogenic to humans. (Class 2B, Monograph #52). **WARNING! FLAMMABLE LIQUID AND VAPOR.** Keep away from heat and sources of ignition. Harmful if inhaled. Use with adequate ventilation. Keep container closed. Avoid contact with skin, eyes and clothing. 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 Absorption, 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
NICKEL ANTIMONY COMPOUND	8007-18-9	30.0	0.5 MGM3	N/E	0.5 MGM3	N/E
PARACHLOROBENZO TRIFLUORIDE	98-56-6	20.0	N/E	N/E	N/E	N/E

MICROCRYSTALLINE SILICA	14808-60-7	20.0	0.025 MG/M3 (respirable)	N/E	0.1 MG/M3 (respirable)	N/E
COBALT COMPOUND	1345-16-0	15.0	0.02 MGM3	NE	.05 MG/M3	NE
TERT-BUTYL ACETATE	540-88-5	10.0	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
TITANIUM DIOXIDE	13463-67-7	5.0	10 MGM3	N/E	10 MGM3	N/E
ALIPHATIC DIOL	TRADE SECRET	5.0	25 PPM	N/E	25 PPM	N/E
N-BUTYL ACETATE	123-86-4	5.0	150 PPM	200 PPM	710 MG/M3	N/E
ETHYL BENZENE	100-41-4	1.0	20 PPM	N/E	435 MGM3	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: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If skin irritation persists, call a physician.

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

Flash Point, °F: N/A
(Setaflash)

Lower Explosive Limit, %: 0.6
Upper Explosive Limit, %: 36.0

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

UNUSUAL FIRE AND EXPLOSION HAZARDS: 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. Wear shoes with conductive soles.

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. Keep containers dry and tightly closed to avoid moisture absorption and contamination. 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. 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

Boiling Range:	149 F (65 C) - 401 F (205 C)	Vapor Density:	Heavier than Air
Odor:	Solvent	Odor Threshold:	N/D
Appearance:	Viscous Liquid, Various Colors	Evaporation Rate:	Slower Than Ether
Solubility in Water:	N/D	Specific Gravity:	app. 1.41
Freeze Point:	N/D	pH:	N/D
Physical State:	Liquid	Vapor Pressure:	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 (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke.

HAZARDOUS POLYMERIZATION: Hazardous polymerisation does not occur.

STABILITY: Stable under normal conditions.

11. Toxicological Information

Chemical Name	CAS-No.	LD50	LC50
NICKEL ANTIMONY COMPOUND	8007-18-9	10000 mg/kg oral rat	Not Available
PARACHLOROBENZO TRIFLUORIDE	98-56-6	6800 mg/kg, oral, rat	4479 ppm
MICROCRYSTALLINE SILICA	14808-60-7	Not Available	Not Available
COBALT COMPOUND	1345-16-0	10001 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
TITANIUM DIOXIDE	13463-67-7	25000 mg/m ³ , oral (rat)	6.82 mg/L, Inh, rat 4H
ALIPHATIC DIOL	TRADE SECRET	Not Available	Not Available

N-BUTYL ACETATE	123-86-4	10760 mg/kg, rat, oral	23.4 mg/l/4/h (rat)
ETHYL BENZENE	100-41-4	3500 mg/kg rat, oral	17.2 mg/L Inh, Rat, 4Hr

12. Ecological Information

ECOLOGICAL INFORMATION: No information available.

13. Disposal Information

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

14. Transport Information

DOT Proper Shipping Name:	Paint	Packing Group:	II
DOT Technical Name:	N/A	Hazard Subclass:	N/A
DOT Hazard Class:	3	Resp. Guide Page:	128
DOT UN/NA Number:	UN 1263		
Additional Notes:	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, Acute Health 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

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>
ACRYLIC COPOLYMER	TRADE SECRET
ACRYLIC POLYOL	TRADE SECRET
AZO PIGMENT	2786-76-7

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>
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-No.</u>
METHYL ALCOHOL	67-56-1

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:** 1 **Personal Protection:** X

VOLATILE ORGANIC COMPOUNDS, GR/LTR MIXED (UNTHINNED): 54

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

The information contained herein is, 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. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.