



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: C-FLEX 1-2-3 AF RED **Revision Date:** 6/11/2013

Identification Number: C111S1NL **Supercedes Date:** 12/19/2008

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: Contains Copper which may cause hemolysis of red blood cells and lung injury. Irritating to eyes and skin. **WARNING! - FLAMMABLE LIQUID AND VAPOUR.** Keep away from heat and sources of ignition. Harmful if inhaled. Use with adequate ventilation. Vapours may cause drowsiness and dizziness. Keep container closed. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Harmful if swallowed. Risk of serious damage to the lungs (by aspiration).

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

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: May cause skin irritation. May cause allergic skin reaction. May be harmful if absorbed through the skin.

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. Prolonged or repeated inhalation of high concentrations of metal fumes may cause metal fume fever, characterized by headache, dizziness, metallic taste in the mouth, and general flu-like symptoms.

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 |
|-----------------------------------|-----------|-----------------------|-------------------|--------------------|--------------|----------------------|
| CUPROUS OXIDE (Cu ₂ O) | 1317-39-1 | 55.0 | 1 MG/M3 | NE | 1 MG/M3 | NE |
| TERT-BUTYL ACETATE | 540-88-5 | 15.0 | 200 PPM | N/E | 950 MGM3 | N/E |
| META-XYLENE | 108-38-3 | 10.0 | 100 PPM | 150 PPM | 435 MG/M3 | N/E |
| ZINC OXIDE | 1314-13-2 | 5.0 | 2 MGM3 | 10 MGM3 | 5 MGM3 | N/E |
| PARA-XYLENE | 106-42-3 | 5.0 | 100 PPM | 150 PPM | 435 MGM3 | N/E |
| ETHYL BENZENE | 100-41-4 | 5.0 | 20 PPM | N/E | 435 MGM3 | N/E |
| ORTHO-XYLENE | 95-47-6 | 5.0 | 100 PPM | 150 PPM | 435 MG/M3 | 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: | 79F (26C) | Lower Explosive Limit, %: | 1.0 |
| (Setaflash) | | Upper Explosive Limit, %: | 7.3 |

Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam

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: Do not allow material to contaminate ground water system. Prevent product from entering drains. Remove all sources of ignition. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Evacuate personnel to safe areas. Wear personal protective equipment. For personal protection see section 8. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

7. Handling and Storage

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

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.

SKIN PROTECTION: Lightweight protective clothing. Impervious gloves. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. 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.

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: | 281 F (138 C) - 343 F (173 C) | Vapor Density: | Heavier than Air |
| Odor: | Solvent | Odor Threshold: | N/D |
| Appearance: | Red Liquid | Evaporation Rate: | Slower Than Ether |
| Solubility in Water: | Insoluble | Specific Gravity: | 1.87 |
| 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 |
|-----------------------------------|-----------|-----------------------|----------------------------------|
| CUPROUS OXIDE (Cu ₂ O) | 1317-39-1 | 470 MG/KG, ORAL, RAT | NOT AVAILABLE |
| TERT-BUTYL ACETATE | 540-88-5 | 3160 mg/kg, oral, rat | 4000 ppm/6 hours, rat inhalation |
| META-XYLENE | 108-38-3 | Not Available | Not Available |
| ZINC OXIDE | 1314-13-2 | Not Available | Not Available |
| PARA-XYLENE | 106-42-3 | Not Available | Not Available |
| ETHYL BENZENE | 100-41-4 | 3500 mg/kg rat, oral | 17.2 mg/L Inh, Rat, 4Hr |
| ORTHO-XYLENE | 95-47-6 | Not Available | Not Available |

12. Ecological Information

ECOLOGICAL INFORMATION: No information available.

13. Disposal Information

DISPOSAL INFORMATION: Dispose of in accordance with local regulations.

14. Transport Information

| | | | |
|---------------------------|----------------|-------------------|-----|
| DOT Proper Shipping Name: | Paint | Packing Group: | III |
| 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> |
|----------------------|----------------|
| META-XYLENE | 108-38-3 |
| ZINC OXIDE | 1314-13-2 |
| PARA-XYLENE | 106-42-3 |
| ETHYL BENZENE | 100-41-4 |
| ORTHO-XYLENE | 95-47-6 |

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> |
|----------------------|----------------|
| VINYL RESIN | 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> |
|----------------------|----------------|
| VINYL RESIN | TRADE SECRET |

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> |
|----------------------|----------------|
| ETHYL BENZENE | 100-41-4 |
| BENZENE | 71-43-2 |

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> |
|----------------------|----------------|
| TOLUENE | 108-88-3 |
| BENZENE | 71-43-2 |

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, D1B, D2B

16. Other Information

HMIS Ratings:

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

VOLATILE ORGANIC COMPOUNDS, GR/LTR MIXED (UNTHINNED): 390

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

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