

**Material Safety Data Sheet (Component A)**

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Date: February 12, 2007

**Product Identification**

Chemical family: Synthetic Urethane Polymer  
Product name: TrueKote CS 200, 252, 300, TopCoat #6, #7 & #9

**Composition Information / Ingredients**

Ingredient Name / CAS	Exposure Limits	Concentration
Dicyclohexylmethane – 4,4 Diisocyanate CAS #5124-30-1	OSHA: .01 ppm ceiling ACGIH: .005 ppm TWA	Less than 1%
Methyl Normal Amyl Ketone CAS #110-43-0	OSHA: PEL-TWA 100.00 ppm PEL-VTEL 100.00 ppm ACGIH: TLV mg/m3 233.00 ppm TLV 50.00 ppm	30%
Urethane PrePolymer	Not Determined	69%

**Hazardous Material Identification**

Primary route(s) of entry: skin absorption, inhalation and ingestion.

Eyes: eye irritant, possible eye burn.

Skin: skin irritant and possible skin sensitizer. Direct skin contact is likely route of entry into the body. Once sensitized an individual may react to airborne levels below the TLV with the following symptoms: itching and tingling of the earlobe and neck, rash and hives, swelling of the arms and legs or other symptoms common to allergic dermatitis. Any individual having a sensitization reaction to this material should be removed from exposure to any isocyanate.

Inhalation: inhalation of vapors or spray mist may also cause irritation to the respiratory tract (dry throat, cough, shortness of breath or chest tightness). In addition, sinusitis, bronchitis or respiratory sensitization (asthma-like symptoms) may occur. Exposure to toluene may cause nausea, headaches, dizziness or any other central nervous system effects.

**Emergency and first aid procedure**

Eyes: flush with large amounts of water for at least 15 minutes. Seek medical attention immediately.

Skin: wash exposed area thoroughly with soap and water. Be sure to wash contaminated clothing before reusing. Seek medical attention.

Inhalation: get person into fresh air. Oxygen may be administered if available and needed. Seek medical attention immediately.

Ingestion: **do not** induce vomiting. Give glass of water or milk to drink. **Do not** give anything by mouth to unconscious person. Seek medical attention immediately.

**Fire and explosion hazard data**

Flash point: 102 F (38.8 C) TCC

Flammable limits (% by volume in air): upper: 7.9 lower: 1.1 %

Extinguishing media: Water spray (fog), foam, dry chemical and carbon dioxide

Special fire fighting procedures: full protective equipment with self-contained breathing apparatus should be worn

Material contains flammable solvent. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat. Water spray may be used to cool closed containers and prevent pressure build up. Empty containers may contain liquid or vapor, which is flammable or explosive. Do not weld, burn or cut empty containers.

**Accidental release measures**

Shut off and eliminate all ignition sources. Ventilate confined spaces. Workers should avoid direct skin or eye contact, or inhalation of vapors. Absorb on dry inert material. Package for disposal.

**Special precautions and storage data**

Storage temperature: 100° F (38° C) maximum

Shelf life: minimum 1 year at 75° F (23° C)

Keep containers closed when not in use. Keep away from heat, sparks and open flame. Store in tightly sealed containers and away from moisture and direct sunlight. Wear personal protective equipment when working on equipment that may be contaminated with material.

**Personal protection**

Respiratory protection: if working in conditions where TLV is exceeded, use a chemical cartridge mask or air supply hood as required and/or approved by ANSI and OSHA.

Eye protection: splash goggles or face shield required. A full-face shield is recommended for most situations as it affords eye as well as face protection.

Ventilation: use with adequate forced air mechanical ventilation in accordance with OSHA regulations. Ventilation must be sufficient to prevent vapors from exceeding exposure limit(s) or build up of explosive concentrations of vapor in air.

Other protective equipment: chemical resistant gloves, apron or coveralls, and face shield are required. If protective creams are used, minimize the area protected only by the cream.

**Physical properties**

Appearance: viscous liquid

Odor: aromatic

Color: clear

Boiling point: 197° F

Specific gravity: 1.00

Percent volatile by volume: 30%

Evaporation rate (ether=1): slower

Vapor density (air=1): greater

Solubility in water (%): negligible/reacts with water, slowly

**Component A****Stability and reactivity**

Stability: stable under normal conditions

Incompatibility: contact with water, alcohols, amines and strong bases

Hazardous decomposition products: by high heat and fire, carbon monoxide, carbon dioxide, oxides of nitrogen, traces of HEN, isocyanate and solvent vapors

Hazardous polymerization: will not occur under normal conditions

Avoid contact with moisture and other materials that react with isocyanates and temperatures above maximum storage temperature

**Toxicological information**

No data

**Ecological information**

No data

**Disposal considerations**

Dispose of in accordance with local, state and federal regulations.

**Shipping information**

DOT shipping name: Paint Related Material  
 DOT hazard classification: 3  
 UN/NA: UN1263  
 Packaging group: II  
 DOT labels required: red label, Flammable Liquid  
 DOT placards required: Flammable Liquid  
 Freight class: 55  
 Packaging, Air freight:  
 Passenger aircraft only: Packaging Inst. (see IATA): Y305 Limited Qty: 1 liter  
 Passenger/Cargo aircraft only: Packaging Inst. (see IATA): 305 Limited Qty: 5 liters  
 Cargo aircraft only: Packaging Inst. (see IATA): 307 Limited Qty: 60 liters

**Regulatory information****California Proposition 65:**

Component A for this product contains the following chemicals that are known to cause reproductive toxicity, and are listed under California Proposition 65.

**Material Safety Data Sheet (Component B)****Product Identification**

Chemical family: PolyEster Polyol Solution  
 Product name: TrueKote CS-200, CS-300, TopCoat #6, #7 & #9

**Composition Information / Ingredients**

Ingredient Name / CAS Number	Exposure Limits	Concentration
Methyl Normal Amyl Ketone CAS #110-43-0	OSHA: PEL-TWA 100.00 ppm PEL-VTEL 100.00 ppm ACGIH: TLV mg/m3 233.00 ppm TLV 50.00 ppm	25%
Polyester Polyol	Not determined	75%

**Hazardous Material Identification**

Primary route(s) of entry: skin absorption, inhalation and ingestion

Eyes: eye irritant, possible eye burn

Skin: skin irritant and possible skin sensitizer. Direct skin contact is likely route of entry into the body.

Inhalation: inhalation of vapors or spray mist may also cause irritation to the respiratory tract (dry throat, cough, shortness of breath, chest tightness). In addition, sinusitis, bronchitis, or respiratory sensitization (asthma-like symptoms) may occur. Exposure to Toluene may cause nausea, headaches, dizziness or any other central nervous system effects.

**Emergency and first aid procedure**

Eyes: flush with large amounts of water for at least 15 minutes. Seek medical attention immediately.

Skin: wash exposed area thoroughly with soap and water. Be sure to wash contaminated clothing before reusing. Seek medical attention.

Inhalation: get person into fresh air. Oxygen may be administered if available and needed. Seek medical attention immediately.

Ingestion: **do not** induce vomiting. Give glass of water or milk to drink. **Do not** give anything by mouth to an unconscious person. Seek medical attention immediately.**Fire and explosion hazard data**

Flash Point: 102 F (38.8 C) TCC

Flammable limits (% by volume in air): upper – 7.9, lower – 1.1 %

Extinguishing media: water spray (fog), foam, dry chemical and carbon dioxide

Special fire fighting procedures: full protective equipment with self-contained breathing apparatus should be worn

Material contains flammable solvent. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat. Water spray may be used to cool closed containers and prevent pressure build up. Empty containers may contain liquid or vapor, which is flammable or explosive. Do not weld, burn or cut empty containers. Always ground container when pouring to avoid static discharge (sparking), which could ignite solvents. Do not allow free fall of more than a few inches when pouring, as dangerous static charges could be generated.

**Component B**

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**Accidental release measures**

Shut off and eliminate all ignition sources. Ventilate confined spaces. Workers should avoid direct skin or eye contact, or inhalation of vapors. Absorb on dry inert material. Package for disposal. Dispose of in accordance with local, state and federal regulations.

**Special precautions and storage data**

Storage temperature: 100° F (38° C) maximum

Shelf life: minimum 1 year at 75° F (23° C)

Keep containers closed when not in use. Keep from heat, sparks and open flame. Store in tightly sealed containers and away from moisture and direct sunlight. Wear personal protective equipment when working on equipment that may be contaminated with material.

**Personal protection**

If working in conditions where TLV is exceeded, use a chemical cartridge mask or air supply hood as required and/or approved by ANSI and OSAH. Use with a adequate forced air mechanical ventilation in accordance with OSHA regulations. Ventilation must be significant to prevent vapors from exceeding exposure limit(s) or build up of explosive concentrations of vapor in air. Splash goggles or face shield is recommended for most situations as it affords eye as well as face protection. Chemical resistant gloves, apron or coveralls, and face shield are required. If protective creams are used, minimize the area protected only by the cream.

**Physical properties**

Appearance: liquid  
Odor: aromatic  
Color: light yellow  
Boiling point: 171° F (77° C)  
Specific gravity: .92 - .94  
Percent volatile by volume: 86 – 95  
Evaporation rate (ether = 1): slower  
Vapor density (air = 1): greater  
Solubility in water (%): 7 - 8 (ethyl acetate)

**Stability and reactivity**

Stability: stable under normal conditions.  
Conditions to avoid: contact with moisture and other materials that react with isocyanates and temperatures above maximum storage temperature.  
Incompatibility: contact with water, alcohols, amines and strong bases.  
Hazardous decomposition products: by high heat and fire, carbon monoxide, carbon dioxide and solvent vapors.  
Hazardous polymerization will not occur under normal conditions.

**Toxicological information**

No data

**Ecological information**

No data

**Disposal considerations**

Dispose of in accordance with local, state and federal regulations.

**Shipping information**

DOT shipping name: Paint Related Material  
DOT hazard classification: 3  
UN/NA number: UN1263  
Packaging group: II  
DOT labels required: red label, Flammable Liquid  
DOT placards required: Flammable Liquid  
Freight class: 55  
Packaging, Airfreight:  
Passenger aircraft only: Packaging Inst. (see IATA): Y305 Limited Qty: 1 liter  
Passenger/Cargo aircraft: Packaging Inst. (see IATA): 305 Limited Qty: 5 liters  
Cargo aircraft only: Packaging Inst. (see IATA): 307 Limited Qty: 60 liters

**Regulatory information****California Proposition 65:**

Component B for this product contains the following chemicals that are known to cause reproductive toxicity, and are listed under California Proposition 65.

**Other information**

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Industrial Polymers, Inc. The data on this sheet relates only to the specific material designated herein. Industrial Polymers, Inc. assumes no legal responsibility for use or reliance upon this data.

Prepared by: C. Boddie  
Approval date: 02/07  
Supersedes 01/02