

# MATERIAL SAFETY DATA SHEET (MSDS)

## SECTION 1: PRODUCT IDENTIFICATION AND USE

**Product Name:** Camie 2000 TFE COAT  
**Manufacturer:** Camie-Campbell  
**Manufacturer's address:** 9225 Watson Industrial Park, St. Louis, MO 63126  
**Telephone number for information:** 1-314-968-3222  
**Telephone number for emergencies:** Chemtel - 1-800-424-9300  
**Preparer:** JLM, phone # 314-968-3222  
**Prepare Date:** 03/09/00 **Replaces Date:** 01/30/97

## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>ITEM</u>	<u>CHEMICAL NAME</u>	<u>CAS NUMBER</u>	<u>WT/WT % LESS</u>
<u>THAN</u>			
01	Dichloromethane	75-09-2	50.0%
02	Isobutane	75-28-5	25.0%
03	Tetrachloroethylene	127-18-4	20.0%
04	Propane	74-98-6	15.0%
05	Flouropolymer	9002-84-0	5.0%

### EXPOSURE LIMITS

<u>ITEM</u>	<u>ACGIH</u>		<u>OSHA</u>		<u>COMPANY</u>
	<u>TLV-TWA</u>	<u>TLV-STEL</u>	<u>PEL-TWA</u>	<u>PEL-CEILING</u>	<u>TLV-TWASKIN</u>
01	50 ppm	No Info	25 ppm	See Sect. 15	No Info NO
02	No Info	No Info	No Info	No Info	1000 ppmNO
03	25 ppm	100 ppm	100 ppm	200 ppm	No Info NO
04	2500 ppm	No Info	1000 ppm	No Info	No Info NO
05	No Info	No Info	No Info	No Info	No Info NO

(See Section 16 for abbreviation legend)

## SECTION 3: HAZARDS IDENTIFICATION

**\*\*\*Emergency Overview\*\*\*:** Keep from reach of children. Do not puncture, incinerate, or place aerosol product containers in compactors. Containers of this material may be hazardous when emptied since containers retain product residues (vapor, liquid, and/or solid). All hazard precautions given must be observed. Do not flame cut, braze, or use welding torch. Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal.

### **Effects of Overexposure:**

**Eyes Contact:** Can cause severe irritation, redness, tearing, blurred vision.

**Skin Contact:** Prolonged or repeated contact can cause moderate irritation, defatting, dermatitis.

**Inhalation:** Inhalation of thermal decomposition products of poly TFE may cause polymer fume fever. Polymer fume fever is a flu-like condition which occurs several hours after exposure and subsides within 24-48 hours even in the absence of treatment. Polymer fume fever does not cause permanent injury and the effects are not cumulative. Inhalation of fluorine compounds released as thermal decomposition products may cause lung irritation and delayed pulmonary edema which require medical treatment. Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation. Methylene chloride can raise the level of carbon monoxide in the blood, causing cardiovascular stress.

**Ingestion:** No information.

**Chronic Hazards:** Perchloroethylene is listed as a potential carcinogen (2B) by IARC. Perchloroethylene is not believed to pose a measurable cancer risk to man

when handled as recommended. Methylene Chloride is listed as a potential carcinogen by IARC (2B) and NTP in experimental animals. Overexposure to this material (or its components) has apparently been found to cause the following effects in laboratory animals: kidney damage, liver damage, lung damage. Overexposure to this material (or its components) has apparently been found to cause the following effects in humans: liver damage, kidney damage, spleen damage, lung damage and brain damage.

**Primary route(s) of entry:**

Skin Contact: Yes      Inhalation: Yes      Eye Contact: Yes

#### **SECTION 4: FIRST AID MEASURES**

**Eye Contact:** Flush with large amounts of water, lifting upper and lower lids occasionally, get medical attention.

**Skin Contact:** Thoroughly wash exposed area with soap and water. Remove contaminated clothing. Launder contaminated clothing before re-use. Get medical attention if irritation persists.

**Inhalation:** Remove individual to fresh air. If breathing is difficult, administer oxygen. Give artificial respiration if breathing has stopped. Keep person warm and quiet. Get medical attention.

**Ingestion:** Do not induce vomiting. Give two glasses of water if conscious. Never give anything by mouth to an unconscious person. Get immediate medical attention.

#### **SECTION 5: FIRE FIGHTING MEASURES**

**Flash point (Pensky-Martens C.C.):** 156° F      LEL: 1.8%      UEL: 25.0%

**Autoignition Temperature:** N.D.

**Extinguishing Media:** CO<sub>2</sub>, dry chemical, foam, water fog.

**Special fire fighting procedures:** Wear self-contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode when fighting fires. Keep fire exposed containers cool with water fog.

**Unusual fire and explosion hazards:** Vapors are heavier than air and travel along the ground or may be moved by ventilation and ignited by ignition sources at locations distant from material handling point. For aerosol products - exposure to temperature over 130 °F may cause containers to burst, releasing highly flammable gas. Vapors can ignite or decompose from extremely high intensity ignition source liberating toxic gases.

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Steps to be taken in case material is released or spilled:** Eliminate sources of ignition and ventilate area. Persons not properly equipped should be excluded from area. Stop spill at source - prevent spreading. Avoid inhalation of vapors. Avoid skin contact with liquid. Soak up on absorbent material and place into proper container for disposal. Use non-sparking scoops for flammable materials. Clean walking surfaces thoroughly to reduce slipping hazard.

#### **SECTION 7: HANDLING AND STORAGE**

**Handling:** Do not transfer to plastic, rubber, or aluminum container.

**Storage:** Do not store above 120° F. Do not store in direct sunlight. Keep away from heat sources, open flame, sparks.

#### **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering Controls:** Provide sufficient mechanical ventilation (general and/or local exhaust).  
Ventilation to maintain exposure below TLV (s).

**Respiratory Protection:** If work place exposure limits of product or any component is exceeded, use a NIOSH/MSHA approved respirator. Consult your safety equipment supplier for recommendations. Cartridge type respirators are not acceptable to protect against methylene chloride exposure except as emergency escape respirators.

Air supplied respirators are required by OSHA when methylene chloride exposures exceed their permissible exposure limits or short term exposure limits.

**Skin Protection:**

Wear impervious gloves if method of use involves skin contact with product. Consult your safety supply vendor for glove recommendations.

**Eye Protection:**

Wear safety glasses at minimum, more extensive protection may be necessary depending on how the product is to be used.

**Other Protective Equipment:**

Wear impervious clothing if bodily exposure is anticipated. Consult your safety supply vendor for recommendations.

**Hygienic Practices:**

Wash hands before eating or smoking. Smoke in designated areas only. Remove and launder clothing if contaminated.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b> Ether-Like	Opaque White	<b>Odor:</b>	Sweet
<b>Physical State:</b>	Liquid	<b>Odor Threshold:</b>	N.D.
<b>Boiling Range (F):</b>	-44 - 254° F	<b>Freeze Point:</b>	N.D.
<b>Vapor pressure:</b>	N.D.	<b>pH @ 0.0%:</b>	N.A.
<b>Vapor density:</b>	Is heavier than air Negligible	<b>Solubility in H<sub>2</sub>O:</b>	
<b>Evaporation rate:</b>	Is faster than Butyl Acetate	<b>Specific gravity:</b>	0.9292
<b>Viscosity:</b>	N.D.	<b>Coefficient of water/oil distribution:</b>	N.D.

(See Section 16 for abbreviation legend)

## SECTION 10: STABILITY AND REACTIVITY

<b>Conditions to avoid:</b>	Heat, sparks, welding arcs, open flame, static electricity, or other source of ignition.
<b>Incompatibility:</b>	Aluminum, acids, alkali, alkaline earth metals, highly reactive metals, magnesium, zinc, water, nitrogen peroxide, sodium, potassium, strong oxidizers, heating above 484° F will cause evolution of toxic fumes. Decomposition products may ignite at temperature above 1300 ° F.
<b>Hazardous decomposition products:</b>	Carbon monoxide and carbon dioxide. Various hydrocarbons, hydrogen chloride, hydrogen fluoride, nitrogen oxide, phosgene, chlorine, fluorine compounds.
<b>Hazardous polymerization:</b>	Will not occur under normal conditions.
<b>Stability:</b>	This product is stable under normal storage conditions.

## SECTION 11: TOXICOLOGICAL PROPERTIES

No product or component toxicological information is available.

## SECTION 12: ECOLOGICAL INFORMATION

No information.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Disposal method:** Dispose of in accordance with all local, state and federal regulations.

## SECTION 14: TRANSPORTATION INFORMATION

<b>DOT Proper Shipping Name:</b>	Aerosols
<b>DOT Hazard Class:</b>	2.1
<b>DOT Hazard Subclass:</b>	None
<b>DOT UN/NA Number:</b>	UN1950
<b>Packing Group:</b>	None
<b>Resp. Guide Page:</b>	126
<b>Additional Information:</b>	For domestic group and air shipment this product may be shipped as a consumer commodity ORM-D. Outer cartons must have the ORM-D or ORM-D Air Designation. (Our original cartons are preprinted with the ORM-D Designation for ground shipment).

## SECTION 15: REGULATORY INFORMATION

**U.S. Federal Regulations: As Follows -**

**OSHA:** Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

**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, FIRE HAZARD, PRESSURIZED GAS HAZARD.

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

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Wt/Wt % Is Less Than</u>
Dichloromethane	75-09-2	50.0%
Tetrachloroethylene	127-18-4	20.0%

**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 information is available.

## **SECTION 15: REGULATORY INFORMATION (CONTINUED)**

**International Regulations: As Follows -**

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

**Canadian WHMIS CLASS:** No information available.

: On June 30, 1993, the OSHA Z-1-A Table was revoked and OSHA reverted back to their prior exposure limits. The values on this MSDS reflect the roll back to the prior values. Some states may continue to enforce the 1993 limits. On January 10th OSHA published a final standard for exposure to methylene chloride. The final rule becomes effective April 10, 1997. The new action limit for methylene chloride is 12.5 ppm, the PEL is 25 ppm and there is a STEL of 125 ppm for a 15 minute period.

## **SECTION 16: OTHER INFORMATION**

<b>HMIS Ratings:</b>	Health: 3	Flammability: 4	Reactivity: 0
<b>Previous MSDS Revision Date:</b>	01/30/97		
<b>Reason for revision:</b>	Scheduled Update		
<b>Volatile By Weight:</b>	97.8%		
<b>VOC Content:</b>	32.4% by weight, 300 grams/liter total product, 532 grams/liter less than water and exempt, 0.37 Lbs/Can.		
<b>Legend:</b>	N.A. - Not Applicable	N.E. - Not Established	N.D. - Not Determined

The information contained on this MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations. The environmental information and hazardous materials identification system have been included by Camie-Campbell Inc. in order to provide additional health and hazard classification information. The ratings recommend are based upon the criteria supplied by the developers of these rating systems, together with Camie-Campbell Inc.'s interpretation of the available data. Proper personal protective equipment varies widely with conditions of use and anticipated exposure. We recommend that a supervisor or other qualified person determine proper PPE for intended use.

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