

# MATERIAL SAFETY DATA SHEET

# Tarr

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**MANUFACTURER:** Tarr, Incorporated  
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**PRODUCT NAME:** BLANKET WASH FP2

**PRODUCT NUMBER:** BWFP2

**PREPARED BY:** Patricia Rodabaugh

**DATE PREPARED:** 3/17/98

**SYNONYMS:**

**Portland, Oregon**  
**Phoenix, Arizona**  
**Auburn, Washington**  
**Vancouver, Washington**

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name                        | CAS        | OSHA PEL | ACGIH TLV     | Weight % |
|--------------------------------------|------------|----------|---------------|----------|
| Tetrachloroethylene                  | 127-18-4   | 25 ppm   | 25 ppm        | 25       |
| Solvent naphtha, medium aliphatic    | 64742-88-7 | 100 ppm* | 100 ppm*      | 61       |
| Solvent naphtha, light aliphatic     | 64742-89-8 | 300 ppm  | 300 ppm       | 7-8      |
| Solvent naphtha, light aromatic      | 64742-95-6 | N/A      | N/A           | 6-7      |
| Contains the following constituents: |            |          |               |          |
| Xylenes                              | 1330-20-7  | 100 ppm  | 100 ppm       | <1       |
| Trimethylbenzene                     | 526-73-8   | 25 ppm   | 25 ppm        | 2-3      |
| Cumene                               | 98-82-8    | 50 ppm   | 50 ppm        | <1       |
| Ethyl benzene                        | 100-41-4   | 100 ppm  | 50 ppm (skin) | <1       |

## 3. HAZARDOUS IDENTIFICATION

### EMERGENCY OVERVIEW:

**WARNING!** Keep away from food. Vapor harmful. Do not ship lightly stabilized grades in aluminum trailers.

**COMBUSTIBLE.** Harmful or fatal if swallowed - can enter lungs and cause damage. May cause eye and skin irritation or injury.

### POTENTIAL HEALTH EFFECTS

**EYE CONTACT:** Material may cause eye irritation. Direct contact with the liquid or exposure to its vapors or mists may cause stinging, tearing, redness.

**INHALATION:** May cause mild irritation to the nose, throat and respiratory tract and may result in central nervous system (CNS) depression.

**INGESTION:** Do not swallow. Swallowing may cause injury or death.

**SKIN CONTACT:** Liquid is moderately irritating to the skin. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

### SIGNS AND SYMPTOMS OF EXPOSURE:

Early to moderate CNS depression may be evidenced by giddiness, headache, dizziness, and nausea; in extreme cases, unconsciousness and death may occur. Aspiration pneumonitis may be evidenced by coughing, labored breathing and cyanosis.

#### 4. FIRST AID MEASURES

**EYE CONTACT:** Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. If irritation occurs, get medical attention.

**INHALATION:** Remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Get medical attention.

**INGESTION:** Do not give liquids if victim is unconscious or drowsy. Otherwise, give 2-3 glasses of water, but do not induce vomiting. Get medical attention.

**SKIN CONTACT:** Remove contaminated clothing/shoes. Flush skin with water. Follow by washing with soap and water. If irritation occurs, get medical attention. Do not reuse clothing until cleaned.

#### AGGRAVATED MEDICAL CONDITIONS:

Preexisting eye, skin and respiratory disorders may be aggravated by exposure to this product. Impaired function from preexisting disorders may be aggravated by exposure to this product. Long-term overexposure may cause liver/kidney injury. In a National Toxicology Program study on Tetrachloroethylene, mice exposed to 400 ppm for 13 weeks were observed to have lesions in the liver including necrosis. Dose-related kidney lesions were observed in rats exposed at 200 or 400 ppm and in mice exposed at 100 or 200 ppm for 6 hours/day, 5 days/week for 103 weeks. Prudent handling practices should be followed to minimize human exposure.

#### SUPPLEMENTAL HEALTH INFORMATION:

Notice to Physician: Only administer adrenaline after careful consideration following overexposure. Increased sensitivity of the heart to adrenaline may be caused by overexposure to this product.

#### 5. FIRE FIGHTING MEASURES

##### FLAMMABLE PROPERTIES

**FLASH POINT:** 103 - 110 F **FLASH POINT METHOD USED:** Tag Closed Cup

**AUTOIGNITION:** NDA

**FLAMMABLE LIMITS: LEL:** 0.80% **UEL:** 7.00%

##### EXTINGUISHING MEDIA:

Use water fog, "alcohol" foam, dry chemical, or CO<sub>2</sub>.

##### SPECIAL FIRE-FIGHTING PROCEDURES:

The use of SCBA is recommended for firefighters. Water spray may be used to cool containers exposed to heat or flame. Emits toxic fumes under fire conditions. When this product is involved in fires, it can decompose to hydrogen chloride and possible traces of phosgene.

##### UNUSUAL FIRE AND EXPLOSION HAZARDS:

When heated above the flash point this material emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mist or spray may be flammable at temperatures below the flash point.

##### COMBUSTION PRODUCTS:

Carbon monoxide and unidentified organic compounds may be formed during combustion.

## **6. ACCIDENTAL RELEASE MEASURES**

### **STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED**

**WARNING.** Toxic. Immediately evacuate the area. Provide maximum ventilation to area of leak or spill. Remove all sources of ignition. Clean-up personnel require protective clothing and respiratory protection from vapors. Only specially trained or qualified personnel should handle the emergency.

## **7. HANDLING AND STORAGE**

### **PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**

Keep away from heat, sparks, and flame. Surfaces that are hot may ignite even liquid product in the absence of sparks or flame. Extinguish pilot lights, cigarettes and turn off other sources of ignition prior to use and until all vapors are gone.

### **OTHER PRECAUTIONS:**

**KEEP OUT OF REACH OF CHILDREN!** Empty containers retain product residue and can be dangerous. Do not pressurize, cut weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks static electricity, or other sources of ignition.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **PERSONAL PROTECTIVE EQUIPMENT**

#### **RESPIRATORY PROTECTION (Specify Type):**

If exposure may or does exceed occupational exposure limits (Sec. 2) use a NIOSH approved respirator to prevent overexposure. In accord with 29 CFR 1910.134 use either an atmosphere-supplying respir. or an air-purifying respir. for organic vapors.

#### **VENTILATION:**

Provide exhaust ventilation sufficient to keep the airborne concentration of this product below its exposure limits. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination.

#### **PROTECTIVE GLOVES:**

Test data indicate the best protection is provided by neoprene, nitrile, and natural rubber gloves.

#### **EYE PROTECTION:**

Use chemical safety goggles and/or full face shield where splashing is possible. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work areas.

#### **OTHER PROTECTIVE CLOTHING OR EQUIPMENT**

Where splashing is possible, full chemically resistant protective clothing (e.g., acid suit) and boots are required.

#### **WORK/HYGIENIC PRACTICES:**

Use good personal hygiene when handling this product. Wash hands after use, before eating, drinking, smoking, or using the toilet.

#### **ENGINEERING CONTROLS:**

Use this material only in well ventilated areas.

### **EXPOSURE GUIDELINES**

May be harmful or fatal if swallowed. May irritate body tissues. Use with adequate ventilation. Avoid breathing vapor. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### APPEARANCE AND ODOR:

Colorless, clear liquid. Mild odor.

### SOLUBILITY IN WATER:

Solubility negligible in water

**BOILING POINT:** 247 F

**PERCENT VOLATILE:** 100

**VAPOR PRESSURE:** 7 - 14.2 mmHg. @ 20 C

**PH:** N/A

**SPECIFIC GRAVITY:** 1.00

**MOLECULAR WEIGHT:** N/A

**MELTING POINT:** NDA

**POUNDS PER GALLON:** 8.42

**FREEZING POINT:** NDA

**OTHER PROPERTIES:**

**EVAPORATION RATE:** Slower than ether

**VAPOR DENSITY:** Heavier than air

## 10. STABILITY AND REACTIVITY

**STABILITY:** Stable

### CONDITIONS TO AVOID:

Avoid heat, sparks, flame and contact with strong oxidizing agents. Do not store or handle in aluminum equipment at temperatures above 120 deg. F.

### INCOMPATIBILITY:

Acids, open flames, hot glowing surfaces or electric arcs.

### HAZARDOUS DECOMPOSITION OR BY PRODUCTS

When this product is involved in fires, it can decompose to hydrogen chloride and possible traces of phosgene. Carbon monoxide and unidentified organic compounds may be formed during combustion.

**HAZARDOUS POLYMERIZATION:** Will Not Occur

### CONDITIONS TO AVOID:

Avoid heat, flame, and other sources of ignition.

## 11. TOXICOLOGICAL INFORMATION

This product may contain benzene (CAS No. 71-43-2) at a concentration less than 10 ppm.

## 12. ECOLOGICAL INFORMATION

Toxic. 100-10ppm (fish) 96-hour TLM LC50. Avoid uncontrolled releases of this material. Where spills are possible, a comprehensive spill response plan should be developed and implemented.

## 13. DISPOSAL CONSIDERATIONS

The preferred options for disposal are to send to licensed reclaimers, or to permitted incinerators. Any disposal practice must be in compliance with federal, state, and local regulations. Do not dump into sewers, ground, or any body of water.

## 14. TRANSPORT INFORMATION

**DOT CLASS:** Toxic liquids, organic, n.o.s.

**HAZARD CLASS:** 6.1

**UN NUMBER:** UN2810

**PACKING GROUP:** II

**GUIDE NUMBER:** 153

**PROPER SHIPPING NAME:** Toxic, liquids, organic, n.o.s. (naphtha, tetrachloroethylene)

## 15. REGULATORY INFORMATION

This product is listed on the EPA/TSCA inventory of chemical substances. Per 40 CFR part 82, this product does not contain nor was it directly manufactured with any class I or class II ozone depleting substance.

## 16. OTHER INFORMATION

**HMIS INFORMATION:** HEALTH: 2 FLAMMABILITY: 2 REACTIVE: 0 PROTECTION: H

### SARA TITLE III DATA

Xylene (1330-20-7), Trimethylbenzene, 1,2,3 - (526-73-8), Cumene (98-82-8), Ethyl benzene (100-41-4) and Tetrachloroethylene (127-18-4) are listed as a toxic chemicals under Sec. 313 of SARA Title III.

Under Sec. 311/312, this product should be reported as an immediate (acute) health hazard, delayed (chronic) health hazard, and a fire hazard.

SARA Title III, Section 302: None of the products in this mixture are found on the extremely hazardous substances list.

### Supplemental Health Info.

Xylene is not listed as a carcinogen by NTP, IARC, or OSHA and we are not aware of data indicating it is mutagenic, carcinogenic or a skin sensitizer. Laboratory animals exposed to prolonged and repeated high doses of Xylene by various routes have shown hearing loss and effects in liver, kidneys, lungs, spleen, heart, blood and adrenals. Developmental toxicity studies showed embryo/lethal/toxic and teratogenic effects with maternal toxicity. The effects of solvents to human hearing are uncertain. Solvent abusers and noise interaction with Xylene in the work environment may cause signs of hearing loss.

### Carcinogenicity:

In a national Toxicology Program study on Tetrachloroethylene, study rats were exposed to 0, 200, or 400 ppm and mice to 0, 100, or 200 ppm 6 hours/day, 5 days/week for 103 weeks. Significant increases in mononuclear cell leukemia was observed for rats and an increased incidence of hepatocellular (liver) carcinomas was observed for mice. Additionally, significant increases in renal (kidney) tubular cell tumors was found for male rats. An EPA Scientific Advisory Board which reviewed the available data urged caution in concluding from the animal studies that perchloroethylene poses a risk of human cancer due to a substantial background incidence of at least on type of these tumors and possible differences in species specific responses.

### Mutagenesis:

Perchloroethylene has been shown to have no or weak mutagenic activity in most test systems.

### Reproductive/developmental:

Inhalation exposure of rats of 70, 230, or 470 ppm perchloroethylene for 8 hours/day for 27 weeks resulted in no adverse effects on reproductive performance. Developmental studies on perchloroethylene have failed to show teratogenic effects in rats.

\* rabbits or mice.

**Epidemiology:**

Limited epidemiology studies have been inconsistent or negative in regard to cancer.

**OTHER ADDITIONAL INFORMATION:**

N/A = Not applicable; NDA=No data available

This product contains a chemical or chemicals known to the State of California to cause cancer and/or reproductive toxicity.

Synonyms for Tetrachloroethylene: Perchloroethylene

**The information contained herein is based on the data available to us and is believed to be accurate. However, Tarr, Incorporated makes no warranty, expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Tarr, Inc. assumes no responsibility for injuries from the use of the product described herein.**