

# MATERIAL SAFETY DATA SHEET



Date Issued: 06/17/2008

MSDS No: BW24

## BLANKET WASH 24

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** BLANKET WASH 24**PRODUCT CODE:** BW24**MANUFACTURER**

Tarr, LLC

P.O. Box 12570

Portland OR 97212

**Service Number:** 503-288-5294**24 HR. EMERGENCY TELEPHONE NUMBERS****CHEMTREC (US Transportation) :**(800) 424 - 9300**CANUTEC (Canadian Transportation) :**(613) 996 - 6666

### 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW****IMMEDIATE CONCERNS:** COMBUSTIBLE - Harmful or fatal if swallowed - Can enter lungs and cause damage. May cause eye and skin irritation or injury.**POTENTIAL HEALTH EFFECTS****EYES:** Moderately irritating to the eyes.**SKIN:** 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).**INGESTION:** Irritating to the gastrointestinal tract, causing abdominal pain and vomiting, sometimes bloody. Ingestion may cause CNS depression, low blood pressure, rapid heart beat and liver damage.**INHALATION:** May cause mild irritation to the nose, throat and respiratory tract and may result in central nervous system (CNS) depression. Prolonged and repeated exposures to high concentrations may cause hearing loss. Chronic hydrocarbon abuse has been associated with irregular heart rhythms and potential cardiac arrest.**SIGNS AND SYMPTOMS OF OVEREXPOSURE****ACUTE TOXICITY:** 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.**CHRONIC EFFECTS:** 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. Overexposure to the material has been suggested as a cause of the following effects in laboratory animals: mild, reversible spleen effects blood abnormalities, liver abnormalities, kidney damage. Developmental Information: This material has been shown to cause harm to the fetus in

laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain.

**MEDICAL CONDITIONS AGGRAVATED:** Preexisting diseases in or history of ailments involving skin, central nervous system, liver and kidney.

**TARGET ORGAN STATEMENT:** The following organs and/or organ systems may be damaged by overexposure to this material. Heart, auditory system.

**COMMENTS HEALTH:** Male rats exposed for 90 days by inhalation to vapors of similar solvents showed evidence of kidney damage. The relevance of this effect to humans is unknown. In one of the studies a low grade anemia was also observed. Laboratory studies have shown that petroleum distillates may cause kidney, liver, or lung damage. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt. %	CAS
Aromatic Petroleum Distillates	45 - 55	064742-95-6
1,2,4-trimethylbenzene	5 - 11	000095-63-6
Xylenes (o-,m-,p- isomers)	1 - 2	001330-20-7
Cumene	< 0.1	000098-82-8
Solvent naphtha (petroleum), medium aliphatic	41 - 51	064742-88-7
Poly(oxy-1,2-ethanediyl),-(nonylphenyl)-w-hydroxy	2 - 4	9016-45-9
Dipropylene glycol methyl ether	2 - 8	034590-94-8
D-Limonene	1 - 3	005989-27-5

**COMMENTS:** Solvent naphtha, light aromatic contains the other constituents listed. Solvent naphtha, light aromatic contains the other constituents listed.

### 4. FIRST AID MEASURES

**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Get medical attention, if irritation occurs or persists.

**SKIN:** Remove contaminated clothing/shoes. Flush skin with water for at least 15 minutes. Follow by washing with soap and water. If irritation occurs, get medical attention. Do not reuse clothing until cleaned.

**INGESTION:** DO NOT INDUCE VOMITING. Do not attempt to give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Get medical attention.

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

## 5. FIRE FIGHTING MEASURES

**FLASHPOINT AND METHOD:** > (114°F) TAG CC

**FLAMMABLE LIMITS:** 0 to 7

**AUTOIGNITION TEMPERATURE:** Not Established

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

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon monoxide and unidentified organic compounds may be formed during combustion.

**EXPLOSION HAZARDS:** When heated above the flash point, this material emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

**FIRE FIGHTING PROCEDURES:** Clear fire area of all non-emergency personnel. Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure, NIOSH approved, self-contained breathing apparatus. Containers exposed to intense heat from fires should be cooled with large quantities of water to prevent weakening of container structure which could result in container rupture.

**FIRE FIGHTING EQUIPMENT:** The use of SCBA is recommended for firefighters. Water spray may be used to cool containers exposed to heat or flame.

**COMMENTS:** Water run off from fire fighting may be slippery.

## 6. ACCIDENTAL RELEASE MEASURES

### ENVIRONMENTAL PRECAUTIONS

**WATER SPILL:** Keep material out of storm sewers and ditches which lead to waterways.

**GENERAL PROCEDURES:** Remove all sources of ignition and provide ventilation. Wear protective clothing as given in section 8. Dike area to contain spill. Take precautions as necessary to prevent contamination of ground and surface waters. Recover spilled material with absorbent, such as sawdust or vermiculite, and sweep into closed containers for disposal using non-sparking equipment. Do not flush to sewer. If area of spill is porous, remove as much contaminated earth and gravel, etc. as necessary and place in closed containers for proper disposal.

## 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** 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.

**HANDLING:** Follow all MSDS/label precautions even after container is emptied because they may retain product residues.

**STORAGE:** Store away from heat, sparks, and open flame. Keep containers tightly closed when not in use. Do not weld, cut, grind, solder, or drill on or near empty containers. Empty containers may contain

explosive concentrations of product vapors.

**COMMENTS:** KEEP OUT OF REACH OF CHILDREN! Empty containers retain product residue and can be dangerous. Do not pressurize or expose such containers to heat or flame.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical Name		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Aromatic Petroleum Distillates	TWA					50	
1,2,4-trimethylbenzene	TWA			25	123		
Xylenes (o-,m-,p- isomers)	TWA	100	435	100	434		
	STEL			150	651		
Cumene	TWA	50 <sup>[1]</sup>	245 <sup>[1]</sup>	50	246		
Dipropylene glycol methyl ether	TWA	100	600	100	606		
	STEL			150	909		
<b>OSHA TABLE COMMENTS:</b>							
1. S = Skin							

**ENGINEERING CONTROLS:** 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.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** 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.

**SKIN:** Wear resistant gloves (consult your safety equipment supplier). To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

**RESPIRATORY:** If exposure may or does exceed occupational exposure limits (Sec. 8) use a NIOSH approved respirator to prevent overexposure. In accord with 29 CFR 1910.134 use either an atmosphere-supplying respirator or an air-purifying respirator for organic vapors.

**PROTECTIVE CLOTHING:** 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.

**OTHER USE PRECAUTIONS:** 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.

**COMMENTS:** 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

**PHYSICAL STATE:** Liquid

**ODOR:** Mild odor.

**APPEARANCE:** Clear, water-white liquid.

**COLOR:** Colorless, clear to light colored liquid.

**pH:** Essentially neutral.

**PERCENT VOLATILE:** 100

**VAPOR PRESSURE:** 12.138 mmHg at (60°F)

**VAPOR DENSITY:** Heavier than air.

**BOILING POINT:** (360°F) to (400°F)

**FREEZING POINT:** NDA = no data available.

**MELTING POINT:** No data available.

**FLASHPOINT AND METHOD:** > (114°F) TAG CC

**SOLUBILITY IN WATER:** Negligible

**EVAPORATION RATE:** Slower than ether.

**DENSITY:** 6.962

**SPECIFIC GRAVITY:** 1.002 to 0.88 at (60°F)

## 10. STABILITY AND REACTIVITY

**STABLE:** Yes

**STABILITY:** Stable under normal conditions.

**POLYMERIZATION:** May occur.

**CONDITIONS TO AVOID:** Avoid heat, sparks, flame and contact with strong oxidizing agents. Prevent vapor accumulation.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal

or oxidative degradation.

**INCOMPATIBLE MATERIALS:** Strong oxidizers.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE

Chemical Name	ORAL LD <sub>50</sub> (rat)	DERMAL LD <sub>50</sub> (rabbit)	INHALATION LC <sub>50</sub> (rat)
Solvent naphtha (petroleum), medium aliphatic	25000	> 4000	> 700

**INHALATION LC<sub>50</sub>:** Acute Toxicity tests reported by supplier on Ethylene Glycol Monobutyl Ether produced the following results: Dermal - LD50: >2.0 g/kg (Guinea Pig), Inhalation - LC50: >633 ppm (v) (Guinea Pig) 1 hour(s), Oral - LD50: 1.4 g/kg (Guinea Pig). Eye Irritation: Severe (rabbit). Skin Irritation: Moderate (rabbit).

**CHRONIC:** Laboratory studies have shown that petroleum distillates may cause kidney, liver, or lung damage. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

### CARCINOGENICITY

**NTP:** Solvent naphtha (petroleum), light aromatic is a complex stream of predominately C8 to C10 hydrocarbons; the exact composition and concentrations will vary. Contains naphthalene 0.3 - .10% weight. The National Toxicology Program (NTP) has reported a chronic inhalation study in rats of naphthalene, a minor component of this product. Naphthalene caused severe inflammation and an increase in tumors of the nasal epithelium in both sexes. NTP considered this to be clear evidence of carcinogenic activity of naphthalene in rats. The relevance to the inhalation toxicity of this product in humans is unknown.

**Notes:** This product may contain ethylene oxide (CAS No. 75-21-8) at a concentration up to 5 ppm. Target Organ Effects: Studies with rabbits indicate that sustained, concluded skin contact with undiluted surfactant may result in the development of inflammatory changes in the lung. Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals: mild, reversible liver effects, mild, reversible kidney effects. Developmental Information: Based on the available information, risk to the fetus from maternal exposure to this material cannot be assessed. Cancer Information: There is no information available. The chance of this material causing cancer is unknown. This material is not listed as a carcinogen by the International Agency for Research on Cancer, The National Toxicology Program, or the Occupational Safety and Health Administration. May contain up to 5 ppm of ethylene oxide, (CAS 75-21-8). Ethylene oxide has been determined to be a cancer and reproductive hazard by the state of California. The OSHA PEL and ACGIH TLV for ethylene oxide is 1 ppm.

**REPRODUCTIVE EFFECTS:** Reproductive and Developmental Toxicity: Animal testing with light aromatic solvents demonstrated embryo/fetal effects but not malformations at concentrations producing maternal toxicity.

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** Do not flush to sewer.

**ECOTOXICOLOGICAL INFORMATION:** Keep out of waterways. Avoid uncontrolled releases of this material. Where spills are possible, a comprehensive spill response plan should be developed and implemented.

**GENERAL COMMENTS:** Avoid uncontrolled releases of this material. Where spills are possible, a comprehensive spill response plan should be developed and implemented.

### 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** 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.

**EMPTY CONTAINER: 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.

**RCRA/EPA WASTE INFORMATION:** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

### 14. TRANSPORT INFORMATION

#### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Petroleum distillates, n.o.s.

**TECHNICAL NAME:** (Naphtha)

**PRIMARY HAZARD CLASS/DIVISION:** Combustible liquid

**UN/NA NUMBER:** UN 1268

**PACKING GROUP:** III

**NAERG:** 128

**LABEL:** Flammable liquid

**OTHER SHIPPING INFORMATION:** Combustible exception: 173.150(f)(1)

### 15. REGULATORY INFORMATION

#### UNITED STATES

#### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

**311/312 HAZARD CATEGORIES:** This product should be reported as an immediate (acute) health hazard, delayed (chronic) health hazard, and a fire hazard.

**FIRE:** Yes **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes  
**CHRONIC:** Yes

**313 REPORTABLE INGREDIENTS:** Xylenes (CAS 1330-20-7), Trimethylbenzene, 1,2,4,- (CAS 95-63-6), Cumene (CAS 98-82-8).

**TITLE III NOTES:** One ingredient in this product, poly(oxy-1,-ethane diyl)-,(nonyl)-w-hydroxy (CAS 9016-45-9), may contain ethylene oxide (CAS 75-21-8) at a concentration up to 5 ppm.

### 302/304 EMERGENCY PLANNING

**EMERGENCY PLAN:** To the best of our knowledge, this product is not listed as an extremely hazardous substance.

### TSCA (TOXIC SUBSTANCE CONTROL ACT)

**TSCA REGULATORY:** All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

## 16. OTHER INFORMATION

**PREPARED BY:** COMPLIANCE DEPT.

**REVISION SUMMARY:** New MSDS

### HMIS RATING

<b>HEALTH:</b>	<b>2</b>
<b>FLAMMABILITY:</b>	<b>2</b>
<b>PHYSICAL HAZARD:</b>	<b>0</b>
<b>PERSONAL PROTECTION:</b>	<b>H</b>

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