

# MATERIAL SAFETY DATA SHEET

Finished Product



Date Issued: 01/08/2003  
MSDS No: 2204-8SQ  
Date Revised: 12/05/2011  
Revision No: 5

## Wondermask WSOL

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Wondermask WSOL

**PRODUCT DESCRIPTION:** Wave solder process masking agent

**PRODUCT CODE:** 2204/CAN-8SQ

#### MANUFACTURER

Techspray, L.P.  
1001 N.W. 1st Street  
P.O. Box 949  
Amarillo, TX 79107

**Emergency Contact:** Chemtrec

**Emergency Phone:** 1-800-858-4043

**Service Number:** 1-800-858-4043

#### 24 HR. EMERGENCY TELEPHONE NUMBERS

**CHEMTREC CCN#21858 (US Transportation) :**(800) 424 - 9300

**CANUTEC (Canadian Transportation) :**(613) 996 - 6666

**Emergency Phone :**(800) 858 - 4043

### 2. HAZARDS IDENTIFICATION

#### HAZARD DESIGNATION

"T" - Toxic

R23/25 - Toxic by inhalation and if swallowed.

R63 - Possible risk of harm to the unborn child.

"F" - Highly flammable

R11 - Highly flammable.

#### EMERGENCY OVERVIEW

**IMMEDIATE CONCERNS:** Contains small amounts of methanol, which is harmful if swallowed.

#### POTENTIAL HEALTH EFFECTS

**EYES:** Avoid contact with eyes; may cause redness, irritation and conjunctivitis.

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

**INGESTION:** Harmful if swallowed --- contains small amounts of methanol.

**INHALATION:** Headache, nausea, mild discomfort possible due to methanol content.

#### SIGNS AND SYMPTOMS OF OVEREXPOSURE

**EYES:** Symptoms of overexposure include: stinging, tearing, redness and pain.

**SKIN:** May cause slight irritation.

**INGESTION:** Poison - may be fatal if swallowed.

**INHALATION:** Inhalation can lead to headache, nausea, and coordination problems.

**ACUTE TOXICITY:** Irritant, gastrointestinal.

**CHRONIC EFFECTS:** Possible carcinogen.

**CARCINOGENICITY:** Polyvinylpyrrolidone is listed by IARC as a carcinogen.

#### REPRODUCTIVE TOXICITY

**TERATOGENIC EFFECTS:** Not considered a developmental toxicant.

**ROUTES OF ENTRY:** Inhalation & ingestion are major routes of entry.

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS	EINECS
Methanol	40 - 50	67-56-1	200-659-6
Acetic Acid Ethenyl Ester, Polymer with 1-Ethenyl-2-Pyrrolidinone	15 - 18	25086-89-9	
2-Pyrrolidinone, 1-Ethenyl-, Homopolymer	20 - 25	9003-39-8	
Silica, amorphous	3 - 6	7631-86-9	2315454
1,2,3- Propanetriol	1 - 3	56-81-5	200-289-5
Non-ionic Surfactant	3 - 5		
Dye (Non-hazardous)	< 1		
Petroleum hydrocarbon	< 1	64742-52-5	

### 4. FIRST AID MEASURES

**EYES:** Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

**SKIN:** Wash with soap and water. Get medical attention if irritation develops or persists.

**INGESTION:** If swallowed, do not induce vomiting. If conscious and alert, give two glasses of water. Seek medical attention.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

### 5. FIRE FIGHTING MEASURES

**FLASHPOINT AND METHOD:** 13°C (55°F) TAG CC

**FLAMMABLE LIMITS:** 7.3 to 36.0

**GENERAL HAZARD:** Vapors can travel to a source of ignition and flash back.

**EXTINGUISHING MEDIA:** Water, foam, dry chemical, carbon dioxide.

**HAZARDOUS COMBUSTION PRODUCTS:** Smoke, fumes and oxides of carbon.

**FIRE FIGHTING PROCEDURES:** Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition.

**FIRE FIGHTING EQUIPMENT:** As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

### 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Absorb liquid and place in sealed container for disposal. Vapors can travel to an ignition source.

#### ENVIRONMENTAL PRECAUTIONS

**WATER SPILL:** NEVER FLUSH TO SEWER.

### 7. HANDLING AND STORAGE

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**GENERAL PROCEDURES:** Wash thoroughly after handling. Use only in a well ventilated area. Follow all MSDS/label precautions even after container is emptied because they may retain product residues. Store in a cool dry place.

**HANDLING:** Use with adequate ventilation.

**STORAGE:** Store in a cool place in original container and protect from sunlight. Keep away from heat and flame.

**STORAGE TEMPERATURE:** Store in a cool place below ( 120 ) F (49 ) C.

**STORAGE PRESSURE:** Store at local atmospheric pressure.

### 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>
Methanol	TWA	S 200 ppm <sup>[1]</sup>	260 mg/m <sup>3</sup> <sup>[1]</sup>	S 200 ppm	262 mg/m <sup>3</sup>	NL ppm	NL mg/m <sup>3</sup>
	STEL	250 ppm	310 mg/m <sup>3</sup>	250 ppm	328 mg/m <sup>3</sup>	NL ppm	NL
1,2,3- Propanetriol	TWA	NL <sup>[2]</sup>	10*,5 <sup>^</sup> mg/m <sup>3</sup> <sup>[2]</sup>	10 ppm <sup>[3]</sup>	NL <sup>[3]</sup>	NL	NL
	STEL	NL	NL	NL	NL	NL	NL
<b>OSHA TABLE COMMENTS:</b> 1. S = Skin 2. * = Total dust, ^ = Respirable fraction 3. NL = Not Listed							

**ENGINEERING CONTROLS:** Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

#### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

**SKIN:** The glove(s) listed below may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection. Viton, Solvex, Butyl, Buna, Neoprene.

**RESPIRATORY:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

**WORK HYGIENIC PRACTICES:** Wash hands before eating and wash before reuse.

**OTHER USE PRECAUTIONS:** Emergency shower and eyewash facility should be in close proximity.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid

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**ODOR:** Alcohol odor  
**APPEARANCE:** Gel-like.  
**COLOR:** Pink/red.  
**pH:** Not Applicable  
**PERCENT VOLATILE:** 50  
**BOILING POINT:** Not Applicable  
**FREEZING POINT:** Not Applicable  
**FLASHPOINT AND METHOD:** 13°C (55°F) TAG CC  
**SOLUBILITY IN WATER:** Fully miscible  
**DENSITY:** 1.03 at 25°C  
**VISCOSITY #1:** 11500 to 13500 Centipoise at 25°C  
**(VOC):** 399.000 g/L (non-exempt VOC)

### 10. STABILITY AND REACTIVITY

**STABILITY:** Stable under normal conditions.  
**POLYMERIZATION:** Will not occur.  
**CONDITIONS TO AVOID:** Heat, flames, ignition sources, and incompatibles.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of Carbon (CO and CO<sub>2</sub>) may form when heated to decomposition.  
**INCOMPATIBLE MATERIALS:** Strong acids and alkalis, reactive metals and strong oxidizing agents.

### 11. TOXICOLOGICAL INFORMATION

#### ACUTE

Chemical Name	ORAL LD <sub>50</sub> (rat)	DERMAL LD <sub>50</sub> (rabbit)	INHALATION LC <sub>50</sub> (rat)
Methanol	6.2 to 12.98 mg/kg	16 g/kg	64000 ppm

**DERMAL LD<sub>50</sub>:** 15800 mg/kg (rabbit)

**ORAL LD<sub>50</sub>:** 5628 mg/kg (rat)

**INHALATION LC<sub>50</sub>:** 64000 ppm, 4-hour

**EYE EFFECTS:** Mixture is a moderate eye irritant.

**SKIN EFFECTS:** Causes irritation to skin.

#### CARCINOGENICITY

Chemical Name	NTP Status	IARC Status	OSHA Status
Methanol	NOT LISTED	NOT LISTED	NOT LISTED

**IARC:** Polyvinylpyrrolidone .

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**TERATOGENIC EFFECTS:** Information for Methanol: In an inhalation developmental toxicity study, rats were exposed 6hrs./day to 5000 - 20000 ppm vapors. A significant teratogenic response was seen at 20000 ppm. Fetotoxicity was noted at 10000 ppm, but not at 5000 ppm.

### 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** There is limited information available on the environmental fate and effects of this material. The primary environmental concern for release is the impact on aquatic and terrestrial species. Due care should be taken to avoid the accidental release of this material into the environment.

### 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Federal, State, and Local laws governing disposal of materials can differ. Ensure compliance with proper authorities before disposal.

**GENERAL COMMENTS:** Dispose of in a manner consistent with federal, state, and local regulations.

### 14. TRANSPORT INFORMATION

#### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** CONSUMER COMMODITY ORM-D

**UN/NA NUMBER:** NA

**PACKING GROUP:** NA

#### ROAD AND RAIL (ADR/RID)

**KEMLER NUMBER:** UN1992

**HAZARD CLASS:** 3(6.1)

#### AIR (ICAO/IATA)

**SHIPPING NAME:** CONSUMER COMMODITY ID8000

**UN/NA NUMBER:** ID8000

**PACKING GROUP:** NA

#### VESSEL (IMO/IMDG)

**SHIPPING NAME:** Flammable Liquid, toxic, N.O.S. (Contains methanol)

**UN/NA NUMBER:** UN1992

**PRIMARY HAZARD CLASS/DIVISION:** 3(6.1)

**PACKING GROUP:** II

### 15. REGULATORY INFORMATION

#### UNITED STATES

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

**311/312 HAZARD CATEGORIES:** IMMEDIATE / DELAYED

**FIRE:** Yes **ACUTE:** Yes **CHRONIC:** Yes

**313 REPORTABLE INGREDIENTS:** Methanol

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### EPCRA SECTION 313 SUPPLIER NOTIFICATION

Chemical Name	Wt. %	CAS
Methanol	40 - 50	67-56-1

**TITLE III NOTES:** Not listed as an Extremely Hazardous Substance.

### 302/304 EMERGENCY PLANNING

**EMERGENCY PLAN:** Methanol (#67-56-1)

### CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

**CERCLA REGULATORY:** Methanol (#67-56-1)

Chemical Name	Wt. %	CERCLA RQ
Methanol	40 - 50	5000 lbs.

**CERCLA RQ:** 5000 lbs

### TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Methanol	67-56-1
1,2,3- Propanetriol	56-81-5

**TSCA STATUS:** All components of this product are either listed or exempt from listing in the TSCA inventory.

### OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)

**29 CFR1910.119---PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS CHEMICALS:** None of the chemicals in this product are considered highly hazardous by OSHA.

**CALIFORNIA PROPOSITION 65:** This product does not contain any chemicals known to the State of California to cause cancer.

**RCRA STATUS:** U154

**OSHA HAZARD COMM. RULE:** Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

### EUROPEAN COMMUNITY

#### EEC LABEL SYMBOL AND CLASSIFICATION



"T" - Toxic  
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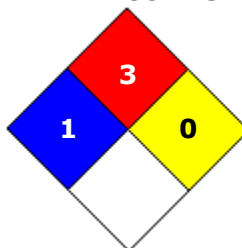
### 16. OTHER INFORMATION

**APPROVED BY:** Pierce A. Pillon     **TITLE:** Chemist

**PREPARED BY:** Steve Cook

**REVISION SUMMARY:** This MSDS replaces the 02/28/2008 MSDS. Revised: **Section 1:** COMMENTS.

#### NFPA CODES



**DATA SOURCES:** Code of Federal Regulations (CFR) The Sigma-Aldrich Library of Regulatory and Safety Data  
OSHA Hazard Communication Standard (29CFR1910.1200) Various Federal, State and Local Regulations

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