

# MATERIAL SAFETY DATA SHEET

Finished Product



Date Issued: 01/09/2003  
MSDS No: 2205-2SQ/8SQ  
Date Revised: 03/02/2012  
Revision No: 8

## Wondermask W

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Wondermask W  
**PRODUCT DESCRIPTION:** Wave solder process masking agent  
**PRODUCT CODE:** 2205/CAN/EUR-2SQ, 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

"Xi" - Irritant  
R36/37/38 - Irritating to eyes, respiratory system and skin.

#### EMERGENCY OVERVIEW

**IMMEDIATE CONCERNS:** May cause skin/eye irritaton. May be harmful if swallowed.

#### POTENTIAL HEALTH EFFECTS

**EYES:** Moderately irritating to the eyes.

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

**INGESTION:** Ingestion may cause nausea and diarrhea.

**INHALATION:** Headache, nausea, and possible coordination problems.

#### SIGNS AND SYMPTOMS OF OVEREXPOSURE

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

**SKIN:** Prolonged or exposure may cause skin irritation.

**INGESTION:** Ingestion may result in diarrhea and/or nausea.

**INHALATION:** Vapor inhalation can result in headache, nausea, and coordination problems.

**ACUTE TOXICITY:** Low hazard for usual industrial or commercial handling.

**CHRONIC EFFECTS:** Frequent or prolonged contact may irritate the skin and cause a skin rash (dermatitis).

**CARCINOGENICITY:** Titanium (IV) oxide is listed by IARC as a possible carcinogen.

#### REPRODUCTIVE TOXICITY

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

**CANCER STATEMENT:** Possible cancer hazard based on tests with laboratory animals.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

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Chemical Name	Wt.%	CAS	EINECS
1,2,3- Propanetriol	1 - 5	56-81-5	200-289-5
2-Propanol	5 - 10	67-63-0	200-661-7
Water	7 - 11	7732-18-5	231-791-2
Potassium Hydroxide	1 - 3	1310-58-3	215-181-3
Sodium salt of polymeric carboxylic acid	45 - 55		
Titanium dioxide	< 1	13463-67-7	2366755
DIATOMACEOUS EARTH/ATTAPULGITE CLAY	3 - 6	8031-18-3	
Petroleum hydrocarbon	< 1	64742-52-5	
Dye (Non-hazardous)	< 1		
Fragrance	< 1		

**4. FIRST AID MEASURES**

**EYES:** Flush eye with water for 15 minutes. Get medical attention.

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

**INGESTION:** If swallowed, gently wipe or rinse the inside of the mouth with water. DO NOT induce vomiting. Sips of water may be given if person is fully conscious. Never give anything by mouth to an unconscious or convulsing person. Immediately contact a poison control center, emergency room or physician as further treatment may be necessary.

**INHALATION:** No specific treatment is necessary since this material is not likely to be hazardous by inhalation. If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.

**5. FIRE FIGHTING MEASURES**

**FLASHPOINT AND METHOD:** Not Available

**FLAMMABLE LIMITS:** NA to NA

**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.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None Expected.

**6. ACCIDENTAL RELEASE MEASURES**

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

**ENVIRONMENTAL PRECAUTIONS**

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

**GENERAL PROCEDURES:** Absorb the liquid and scrub the area with detergent and water.

**RELEASE NOTES:** Spills and releases may have to be reported to Federal and/or local authorities.

**7. HANDLING AND STORAGE**

**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:** Empty containers will retain product residue and vapor and should be handled as if they were full.

**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>
1,2,3- Propanetriol	<b>TWA</b>	NL [1]	10*,5 <sup>^</sup> mg/m <sup>3</sup> [1]	10 ppm [2]	NL [2]	NL	NL
	<b>STEL</b>	NL	NL	NL	NL	NL	NL
2-Propanol	<b>TWA</b>	400 ppm	980 mg/m <sup>3</sup>	400 ppm	983 mg/m <sup>3</sup>	NL [2]	NL [2]
	<b>STEL</b>	500 ppm	1225 mg/m <sup>3</sup>	500 ppm	1230 mg/m <sup>3</sup>	NL	NL
Potassium Hydroxide	<b>TWA</b>	NL [3]	NL [3]	NL	NL	NL	NL
	<b>STEL</b>	NL	C 2	NL	C 2	NL	NL
Titanium dioxide	<b>TWA</b>	5 mg/m <sup>3</sup>	10	10 mg/m <sup>3</sup> [4]	10 [4]	NL	NL
	<b>STEL</b>	NL	NL	NL	NL	NL	NL

**OSHA TABLE COMMENTS:**

- \* = Total dust, ^ = Respirable fraction
- NL = Not Listed
- NL = Not Listed, C = Ceiling
- Total dust

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

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**Wondermask W****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**

Chemical Name	Flash Point (°C)	Boiling Point (°C)	Specific Gravity
2-Propanol	11.7	82.4	0.785

**PHYSICAL STATE:** Liquid

**ODOR:** Alcohol odor

**APPEARANCE:** Gel-like.

**COLOR:** Light blue.

**pH:** Not Applicable

**PERCENT VOLATILE:** 60

**FLASHPOINT AND METHOD:** Not Available

**SOLUBILITY IN WATER:** > 50

**DENSITY:** 1.15

**VISCOSITY #1:** 9000 to 10000 Centipoise at 25°C

**(VOC):** 53.000 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:** Metals. Acidic conditions. Oxidizing materials.

**11. TOXICOLOGICAL INFORMATION****ACUTE**

**DERMAL LD<sub>50</sub>:** 12800 mg/kg (rabbit)

**ORAL LD<sub>50</sub>:** 273 mg/kg (rat)

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**NOTES:** Toxic, corrosive, dust irritant

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

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

**CARCINOGENICITY**

Chemical Name	NTP Status	IARC Status	OSHA Status
2-Propanol	NOT LISTED	NOT LISTED	NOT LISTED

**IARC:** Titanium (IV) oxide

**REPRODUCTIVE EFFECTS:** NOT listed

**MUTAGENICITY:** Collective data indicate non-mutagenic.

**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.

**ECOTOXICOLOGICAL INFORMATION:** Isopropyl alcohol has a high biochemical oxygen demand and a potential to cause oxygen depletion in aqueous systems, a low potential to affect aquatic organisms, a low potential to affect secondary waste treatment microbial metabolism, a low potential to affect the germination of some plants, a high potential to biodegrade (low persistence) with unacclimated microorganisms from activated sludge.

**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:** Nonhazardous

**UN/NA NUMBER:** NA

**PACKING GROUP:** NA

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

**HAZARD CLASS:** No classification

**AIR (ICAO/IATA)**

**SHIPPING NAME:** Nonhazardous

**UN/NA NUMBER:** NA

**PACKING GROUP:** NA

**VESSEL (IMO/IMDG)**

**SHIPPING NAME:** Nonhazardous

**UN/NA NUMBER:** NA

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PACKING GROUP: NA

**15. REGULATORY INFORMATION****UNITED STATES****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)****311/312 HAZARD CATEGORIES:** IMMEDIATE / DELAYED**ACUTE:** Yes **CHRONIC:** Yes**313 REPORTABLE INGREDIENTS:** 2-propanol (CAS #67-63-0)**EPCRA SECTION 313 SUPPLIER NOTIFICATION**

Chemical Name	Wt.%	CAS
2-Propanol	5 - 10	67-63-0

**302/304 EMERGENCY PLANNING****EMERGENCY PLAN:** Listed in Table 302.4 of 40 CFR Part 302 as a hazardous substance with a reportable quantity of 1000 lbs.**CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)****CERCLA REGULATORY:** Potassium hydroxide**CERCLA RQ:** 1000 Lbs.**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

Chemical Name	CAS
1,2,3- Propanetriol	56-81-5
2-Propanol	67-63-0
Water	7732-18-5
Titanium dioxide	13463-67-7

**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 CFR 1910.119---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.**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**

"Xi" - Irritant  
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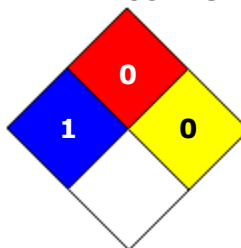
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### 16. OTHER INFORMATION

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

**REVISION SUMMARY:** This MSDS replaces the 12/05/2011 MSDS.

#### 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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