Product Information

Wondermask® P

Peelable Solder Mask

2211

Introduction

Wondermask® P is a temporary, peelable solder mask comprised of a thixotropic, synthetic acrylic latex designed to withstand fluxing, wave soldering and cleaning operations. Unlike natural latex mask, it contains no offensive ammonia and hence is non-corrosive to copper, gold, silver or pre-soldered surfaces. In addition, stability problems are averted. When applied, the product is opaque pink, and when cured, becomes completely translucent red. Cured mask can be for masking conformal coatings. May be used in applications such as robotic, pneumatic, hand applied or template screening (not recommended for silk screening).

Features / Benefits

Peelable Mask
Synthetic Latex
Non-Ammoniated
Quick Drying

Chemical Components

Deionized Water	(7732-18-5)	50-60%
Hydroxylated lecithin	(8029-76-3)	<2%
5-chloro-2-methyl-4-isothiazolin-3-one	(26172-55-4)	<<1%
Alkyl benzyl Phthalate	(68515-40-2)	
Alkoxylated Alkyl Phenol	Proprietary	
Nonylphenol Ethoxylate	(127087-87-0)	<3%
Magnesium Nitrate	(10377-60-3)	<<1%

Application	Cure Type	Cure Time	Removal	Viscosity	Suggested Thickness	Thinner
Template/Hand/ Pneumatic/ Robotic	Thermal	1 hr. Ambient 30 min @65°C 20 min. @82°C	Peel off. Dried mask is not soluble in liquids.	28,000-30,000 cps	20-30 mils	D.I. Water

Environmental Policy

Techspray® is committed to developing products to ensure a safer and cleaner environment. We will continue to meet and sustain the regulations of all federal, state and local government agencies.

Packaging and Availability

Wondermask® P may be ordered in the following container sizes:

2211-8SQ	8 Ounce Squeeze Bottle
2211-G	1 Gallon in Plastic
2211-5G	5 Gallons in Plastic
2211-54G	54 Gallons in Plastic

Warranty Information

This product is warranted to authorized Techspray distributors to meet physical and chemical specifications for a period of 12 months from receipt of product.

Product questions can be answered by Techspray technical sales department at 800-858-4043 or tsales@techspray.com.

MATERIAL SAFETY DATA SHEET

Finished Product

MSDS Ref. No : 2211

Wondermask P

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Wondermask P
PRODUCT DESCRIPTION: Wave solder process masking agent
PRODUCT CODE: 2211/CAN/EUR-2SQ, 8SQ, G, 5G, 54G

MANUFACTURER

Techspray, L.P.

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Content	CAS	EINECS
Acrylic Latex Polymer	75 - 90		
LECIITHIN	1 - 5	8029-76-3	232-440-6
Pigment	< 1	mixt-ur-e	
Alkoxylated alkylphenol	5 - 10	9064-13-5	
Tetrakis[methylene(3,5-di-tert-butyl-4-hydroxyhydrocinnamate)]methane	< 1	6683-19-8	229-722-6
2-Propenoic acid, telomer with 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid monosodium salt and sodium hydrogen sulfite, sodium salt	1 - 5	97953-25-8	xxx-xxx-x
C7 - C9 alkyl benzyl phthalate	1 - 5	68515-40-2	271-082-5

EEC LABEL SYMBOL AND CLASSIFICATION

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: Avoid exposure to vapor concentration in confined areas.

POTENTIAL HEALTH EFFECTS

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

SKIN: May cause skin irritation.

INGESTION: Substance may be harmful if swallowed.

INHALATION: Prolonged or excessive inhalation may cause respiratory tract irritation.

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 diarhea and/or nausea.

INHALATION: Inhalation may cause respiratory tract irritation.

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

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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.

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5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: None

FLAMMABLE LIMITS: N/A to N/A

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.

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
ODOR: Low odor.
APPEARANCE: Gel-like.
COLOR: Pink/red.
PERCENT VOLATILE: 50
SOLUBILITY IN WATER: Insoluble
DENSITY: 1.0
VISCOSITY: 28000 to 30000 Centipoise
(VOC): 27.5 g/L (non-exempt VOC)

10. STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION: NO

CONDITIONS TO AVOID: Heat, flames, ignition sources, and incompatables.

STABILITY: Stable.

POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of Carbon (CO and CO2) may form when heated to decomposition.

INCOMPATIBLE MATERIALS: Oxidizing agents, alkalies and bases.

11. TOXICOLOGICAL INFORMATION

INGREDIENT(S)	ORAL LD $_{50}$ (rat)	DERMAL LD $_{50}$ (rabbit)	INHALATION LC $_{50}$ (rat)
Pigment	> 5000 - mg/kg		> 5580 - ppm

ROAD AND RAIL (ADR/RID):
PROPER SHIPPING NAME: Nonhazardous
PACKING GROUP: NA

AIR (ICAO/IATA)
PROPER SHIPPING NAME: Nonhazardous
UN/NA NUMBER: NA
PACKING GROUP: NA

VESSEL (IMO/IMDG)
PROPER SHIPPING NAME: Nonhazardous
UN/NA NUMBER: NA
PACKING GROUP: NA

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

313 REPORTABLE INGREDIENTS: Not considered a SARA 313 "Toxic Chemical".

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: None of the ingredients are CERCLA/Superfund hazardous chemicals.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

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

RCRA STATUS: NOT listed

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

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.

EUROPEAN COMMUNITY

EEC LABEL SYMBOL AND CLASSIFICATION

Currently not classified according to EEC Directives.

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

16. OTHER INFORMATION

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

PREPARED BY: Steve Cook