



Section 1: Identification of the Substance/Mixture and of the Company Undertaking

1.1 Product identifier

Product Name: Latex Solder Mask

Product Codes: None

1.2. Relevant identified uses of the substance or mixture and uses advised against

Product Restrictions: Not applicable.

1.3 Supplier's details

Manufacturer Name: Nordson EFD LLC

Manufacturer Address 1: 40 Catamore Boulevard

Manufacturer City: East Providence

Manufacturer State: Rhode Island

Manufacturer Zip Code: 02914

Manufacturer Country: USA

Business Phone: +1-401-431-7000

Other Phone: ChemTel: Outside of the US, Canada, Puerto Rico and the U.S. Virgin Islands:
+01-813-248-0585
China: 400-120-0751
Brazil: 0-800-591-6042
India: 000-800-100-4086
Mexico: 01-800-099-0731

Distributor: EFD International

Distributor Address 1: Unit 14, Apex Business Centre Boscombe Road

Distributor City: Dunstable, Bedfordshire

Distributor State: LU5 4SB England

Distributor Web: efdproductcompliance@nordsonefd.com

1.4 Emergency phone number

Emergency Phone: ChemTel Contract# MIS1138399
United States, Canada, Puerto Rico, and the U.S. Virgin Islands free phone number:
1-800-255-3924

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Notes from Section 1: Conforms to Regulation (EC) No. 1907/2006 (REACH)

Section 2: Hazards Identification

2.1 Classification of the substance or mixture

2.1.1. Classification according to Regulation (EC) No 1272/2008 [CLP]

GHS Class Phrases: Respiratory sensitisation. category 1.
Skin Sensitization. category 1.
Specific Target Organ Toxicity - STOT, Single Exposure SE. Category 3.
Acute Oral Toxicity, category 4

2.2 Label elements:

Signal Words:	DANGER.
Hazard Statements:	<p>H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.</p> <p>H317 - May cause an allergic skin reaction.</p> <p>H335 - May cause respiratory irritation.</p> <p>H302 - Harmful if swallowed.</p> <p>H373 - May cause damage to organs through prolonged or repeated exposure .</p>
Precautionary Statements:	<p>P272 - Contaminated work clothing should not be allowed out of the workplace.</p> <p>P280 - Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P284 - In case of inadequate ventilation wear respiratory protection.</p> <p>P405 - Store locked up.</p> <p>P501 - Dispose of contents/container in accordance with Local, State, Federal and Provincial regulations.</p> <p>P270 - Do not eat, drink or smoke when using this product.</p> <p>P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>P201 - Obtain special instructions before use.</p> <p>P202 - Do not handle until all safety precautions have been read and understood.</p> <p>P260 - Do not breathe dust/fume/gas/mist/vapours/spray.</p> <p>P264 - Wash { ... } thoroughly after handling.</p> <p>P302+P352 - IF ON SKIN: Wash with plenty of soap and water.</p> <p>P361+P364 - Remove/Take off immediately all contaminated clothing and wash it before reuse.</p> <p>P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.</p> <p>P308+P313 - IF exposed or concerned: Get medical advice/attention.</p>

2.3 Other hazards

Emergency Overview:	<p>*Latex Allergy*</p> <p>Caution: this product contains natural rubber latex which may cause allergic reactions when in contact with the skin or eye. Latex proteins can also bind to powder particles in latex and the powder can thus act as a carrier of the latex allergen. The airborne powder can be created when handling latex increasing the risk of allergic reactions because uptake, via the lungs.</p>
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Section 3: Composition/Information on Ingredients

3.2 Mixtures:

Ingredient Name	CAS Number	Ingredient Percent	EC Number	Comments
Ethylene glycol	107-21-1	<5		
H302 H373 Acute Oral Toxicity, category 4	Specific Target Organ Toxicity -STOT Repeated exposure RE, category 2			
Titanium Dioxide	13463-67-7	<10		
H351 Carcinogenicity, category 2				
Natural Rubber Latex	9006-04-6	>85		
H317 H334 Skin Sensitization, category 1	Respiratory sensitisation, category 1			

Section 4: First Aid Measures

4.1 Description of first aid measures

Eye Contact:	Immediately flush eyes with plenty of water for 15 to 20 minutes. Get medical attention, if irritation or symptoms of overexposure persists.
Skin Contact:	Immediately wash skin with soap and plenty of water. Get medical attention if irritation develops or persists.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.
Ingestion:	If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Other First Aid:	May cause allergic skin and respiratory reaction (sensitization). Individuals sensitized to natural latex may experience breathing difficulties through skin contact. May cause respiratory tract irritation. Prolonged or repeated exposure may cause kidney damage. May cause intestinal blockage if swallowed.
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4.3 Indication of immediate medical attention and special treatment needed

Note To Physicians:	Individuals with known latex allergies should not use this product. Immediate medical attention is required if experiencing respiratory problems or breathing difficulties
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Section 5: Firefighting Measures

5.1 Extinguishing media

Extinguishing Media:	Use alcohol resistant foam, carbon dioxide, dry chemical, or water fog or spray when fighting fires involving this material.
Unsuitable Media:	Not determined.

5.2 Special hazards arising from the substance or mixture

Hazardous Combustion Byproducts:	Oxides of carbon and other unknown organic compounds.
Unusual Fire Hazards:	None.

5.3 Advice for firefighters

Fire Fighting Instructions:	Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off water.
Protective Equipment:	As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.
NFPA Fire:	1
NFPA Health:	2
NFPA Reactivity:	0

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personnel Precautions:	Evacuate area and keep unnecessary and unprotected personnel from entering the spill area. Avoid inhaling vapors, mists, or fumes. Avoid contact with skin, eyes and clothing.
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6.2 Environmental precautions

Environmental Precautions:	Avoid runoff into storm sewers, ditches, and waterways.
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6.3 Methods and materials for containment and cleaning up

Methods for Containment: Contain spills with an inert absorbent material such as soil or sand. Prevent from spreading by covering, diking or other means. Provide ventilation.

Methods for Cleanup: Clean up spills immediately observing precautions in the protective equipment section. Place into a suitable container for disposal. Provide ventilation. After removal, flush spill area with soap and water to remove trace residue.

6.4 Reference to other sections

Other Spill Precautions: Refer to Section 8 for information on personal protection equipment.

Section 7: Handling and Storage

7.1 Precautions for safe handling

Handling: Use with adequate ventilation. Avoid breathing vapor and fumes. Use only in accordance with directions.

Special Handling: Do not use in areas without adequate ventilation.

Hygiene Practices: Avoid inhaling vapors, mists, or fumes. Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Storage: Store in a cool, dry, well ventilated area away from sources of heat, combustible materials, direct sunlight, and incompatible substances. Keep container tightly closed when not in use. Protect from freezing.

7.3 Specific end use(s)

Section 8: Exposure Controls/Personal Protection

8.1 Control parameters

Exposure Guidelines - Ingredient Based:

Ethylene glycol:

ACGIH:	TLV-STEL: C 100 mg/m ³ (H)
France - TWA:	20 ppm
Germany - TWA:	10 ppm
Italy - TWA:	20 ppm
United Kingdom - TWA:	20 ppm
Austria - TLV - TWA:	None
Belgium - TLV - TWA:	None
Czech Republic - TLV - TWA:	None
Denmark - TLV - TWA:	None
Finland - TLV - TWA:	TLV-TWA: 20ppm, 50 mg/m ³
France - TLV - TWA:	None
Germany - TLV - TWA:	None
Germany - TLV - TWA:	None
Greece - TLV - TWA:	None

Ireland - TLV - TWA:	None
Italy - TLV - TWA:	None
Netherlands - TLV - TWA:	None
Poland - TLV - TWA:	None
Portugal - TLV - TWA:	None
Spain - TLV - TWA:	None
Sweden - TLV - TWA:	TLV-TWA: 10 ppm, 25 mg/m3
United Kingdom - TLV - TWA:	None
Titanium Dioxide:	
ACGIH:	TLV-TWA: 10 mg/m3
USA - OSHA - TLV - TWA - Total dust:	15 mg/m3
France - TWA - Inhalable Fraction:	11 mg/m3
United Kingdom - TWA - Inhalable Fraction:	10 mg/m3
Austria - TLV - TWA:	None
Belgium - TLV - TWA:	TLV-TWA: 10 mg/m3
Czech Republic - TLV - TWA:	None
Denmark - TLV - TWA:	TLV-TWA: 6 mg/m3 total dust
Finland - TLV - TWA:	None
France - TLV - TWA:	TLV-TWA: 11 mg/m3 inhalable aerosol
Germany - TLV - TWA:	None
Greece - TLV - TWA:	None
Ireland - TLV - TWA:	TLV-TWA: 10 mg/mc3 inhalable fraction, 4 mg/mc3 respirable fraction
Italy - TLV - TWA:	None
Netherlands - TLV - TWA:	None
Poland - TLV - TWA:	TLV-TWA: 10 mg/m3
Portugal - TLV - TWA:	None
Spain - TLV - TWA:	TLV-TWA: 10 mg/m3 inhalable aerosol
Sweden - TLV - TWA:	TLV-TWA: 5 mg/m3 inhalable aerosol
United Kingdom - TLV - TWA:	TLV-TWA: 10 mg/m3 10 inhalable aerosol, 4 mg/m3 respirable aerosol
Natural Rubber Latex:	
ACGIH:	TLV-TWA: 0.0001 mg/m3 Skin: Skin,Sensitizer,Inhalable fraction (I)
Austria - TLV - TWA:	None

Belgium - TLV - TWA:	TLV-TWA: 0.001 mg/m ³ (proteins)
Czech Republic - TLV - TWA:	None
Denmark - TLV - TWA:	None
Finland - TLV - TWA:	None
France - TLV - TWA:	None
Germany - TLV - TWA:	None
Greece - TLV - TWA:	None
Ireland - TLV - TWA:	None
Italy - TLV - TWA:	None
Netherlands - TLV - TWA:	None
Portugal - TLV - TWA:	None
Spain - TLV - TWA:	TLV-TWA: 0.001 mg/m ³
Sweden - TLV - TWA:	None
United Kingdom - TLV - TWA:	None

8.2 Exposure controls

Engineering Controls:	Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.
Eye Protection:	Safety glasses with side-shields.
Skin Protection:	Wear appropriate protective gloves and other protective apparel to prevent skin contact. Consult manufacturer's data for permeability data.
Hand Protection:	Wear appropriate protective gloves. Consult glove manufacturer's data for permeability data.
Respiratory Protection:	When ventilation is not sufficient to remove fumes from the breathing zone, a safety approved respirator or self-contained breathing apparatus should be worn.
Hygiene Practices:	Avoid inhaling vapors, mists, or fumes. Wash thoroughly after handling.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical and chemical properties

Physical State:	Liquid.
Color:	White
Odor:	Ammonia odor.
pH:	Not determined.
Melting Temperature:	> 100 °C (> 212 °F)
Boiling Temperature:	100°C (212°F)
Flash Point:	Not determined.

Ignition Temperature:	Not determined.
Lower Flammable Limit:	Not determined.
Upper Flammable Limit:	Not determined.
Vapor Pressure:	Not determined.
Vapor Density:	Not determined.
Solubility:	Dispersible in water.
Specific Gravity:	1.01
Evaporation Rate:	Similar to water.
Partition Coefficient:	Not determined.
Percent Volatile:	Not determined.
VOC Content:	Not determined.
Viscosity:	18,000 – 22,000 CPS
Odor Threshold:	Not determined.
Oxidizing Properties:	Not an oxidizer
Explosive Properties:	Not determined.

9.2 Other information

Section 10: Stability and Reactivity

10.1 Reactivity

Reactivity: Not reactive under normal conditions of use and storage.

10.2 Chemical Stability

Chemical Stability: Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reactions

Hazardous Polymerization: Not reported. Contact with acidic materials may cause latex to coagulate.

10.4 Conditions To Avoid

Conditions To Avoid: None known.

10.5 Incompatible Materials

Incompatible Materials: Acidic materials.

Section 11: Toxicological Information

11.1 Information on toxicological effects

Product:

Route of Exposure: Eyes. Skin. Inhalation. Ingestion.

PreExisting Conditions Aggravated by Exposure: Persons with asthmatic-type conditions, chronic bronchitis, other chronic respiratory diseases, recurrent skin eczema or sensitization should be excluded from working with this product. Once sensitized no further exposure can be permitted.

Acute Skin Effects: May cause irritation.

Acute Eye Effects: May cause irritation.

Ethylene glycol:

Eye Toxicity:	Administration into the eye - Rabbit Standard Draize test: 500 mg/24H [Mild] Administration into the eye - Rabbit Standard Draize test: 100 mg/1H [Mild] Administration into the eye - Rabbit Standard Draize test: 1440 mg/6H [Moderate] (RTECS)
Skin Toxicity:	Administration onto the skin - Rabbit LD50 - Lethal dose, 50 percent kill: 9530 uL/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)
Ingestion Toxicity:	Oral - Rat LD50 - Lethal dose, 50 percent kill: 4700 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)
Titanium Dioxide:	
Ingestion Toxicity:	LD50 Oral - Rat - female - > 5,000 mg/kg
Inhalation Toxicity:	LC50 Inhalation - Rat - male - 4 h - > 6.82 mg/l
Carcinogenicity:	IARC - Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, and is considered a hazard in it's dust form only.

Section 12: Ecological Information

12.1 Ecotoxicity

Product:

Ecotoxicity: Toxic to aquatic life with long lasting effects.

Effect of Material On Plant/Animal: In high concentrations, this product may be dangerous to plants and animals.

12.2 Persistence and degradability

Product:

Biodegradation: Not determined.

12.3 Bioaccumulative potential

Product:

BioAccumulation: Not determined.

12.4 Mobility in soil

Product:

Mobility In Environmental Media: Not determined.

Section 13: Disposal Considerations

13.1 Waste treatment methods

Waste Disposal: Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.

Section 14: Transport Information

DOT Shipping Name:	Not Regulated.
DOT UN Number:	Not Regulated.
IMDG Shipping Name:	Not Regulated.
IMDG UN Number:	Not Regulated.
IATA Shipping Name:	Not Regulated.
IATA UN Number:	Not Regulated.
RID/ADR Shipping Name:	Not Regulated.
RID/ADR UN Number:	Not Regulated.

Section 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulatory - Product Based:

Canada Reg. Status:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the Controlled Products Regulations.

Regulatory - Ingredient Based:

Ethylene glycol:

Canada DSL:	Listed
TSCA Inventory Status:	Listed
Section 313:	EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical.
EC Number:	203-473-3

Titanium Dioxide:

CA PROP 65:	IARC: Group 2B: Possibly carcinogenic to humans.
Canada DSL:	Listed
TSCA Inventory Status:	Listed
EC Number:	236-675-5

Natural Rubber Latex:

Canada DSL:	Listed
EC Number:	232-689-0

15.2 Chemical Safety Assessment

Section 16: Additional Information

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Disclaimer: The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Additionally, Nordson EFD LLC assumes no responsibility for injury to the end user proximately caused by the material even if reasonable safety procedures are followed. The end user assumes the risk in his use of this material.

HMIS:

Health	2
Flammability	1
Reactivity	0
PPE	X

Chronic Health Hazard

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